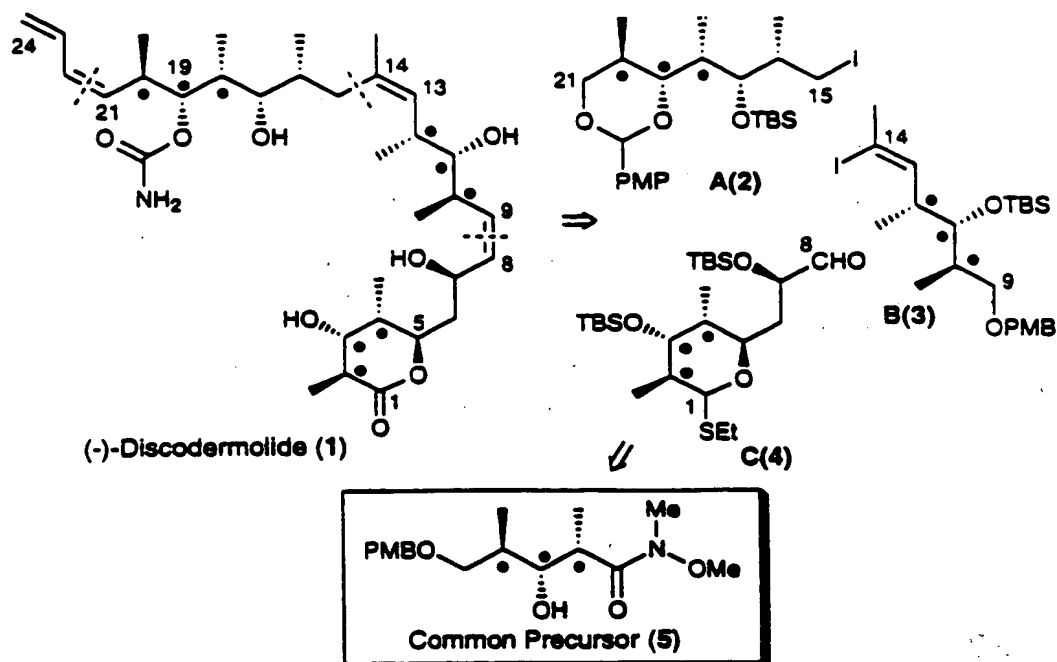


Figure 1



• Denote the repeating stereochemical triad

Figure 2

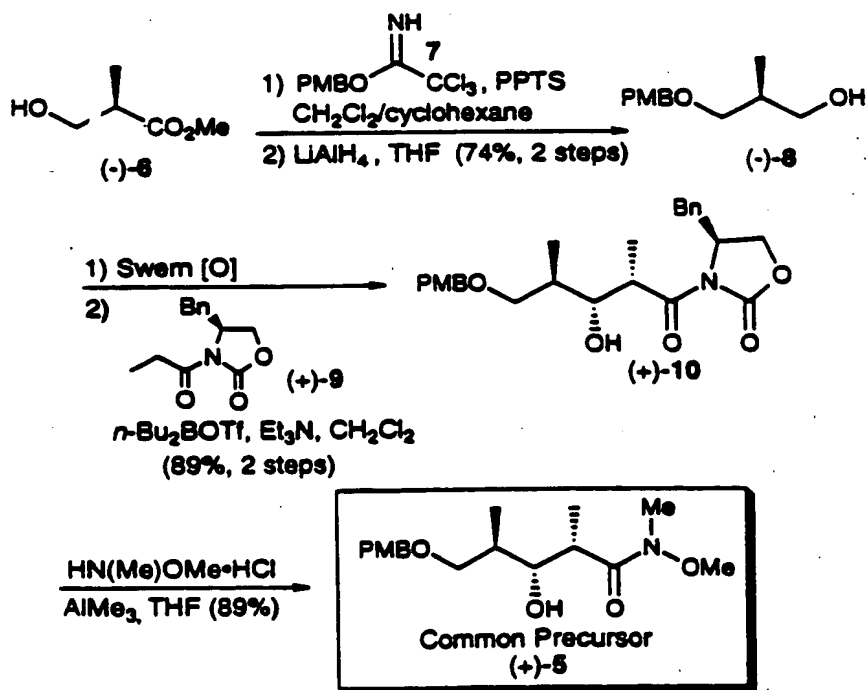
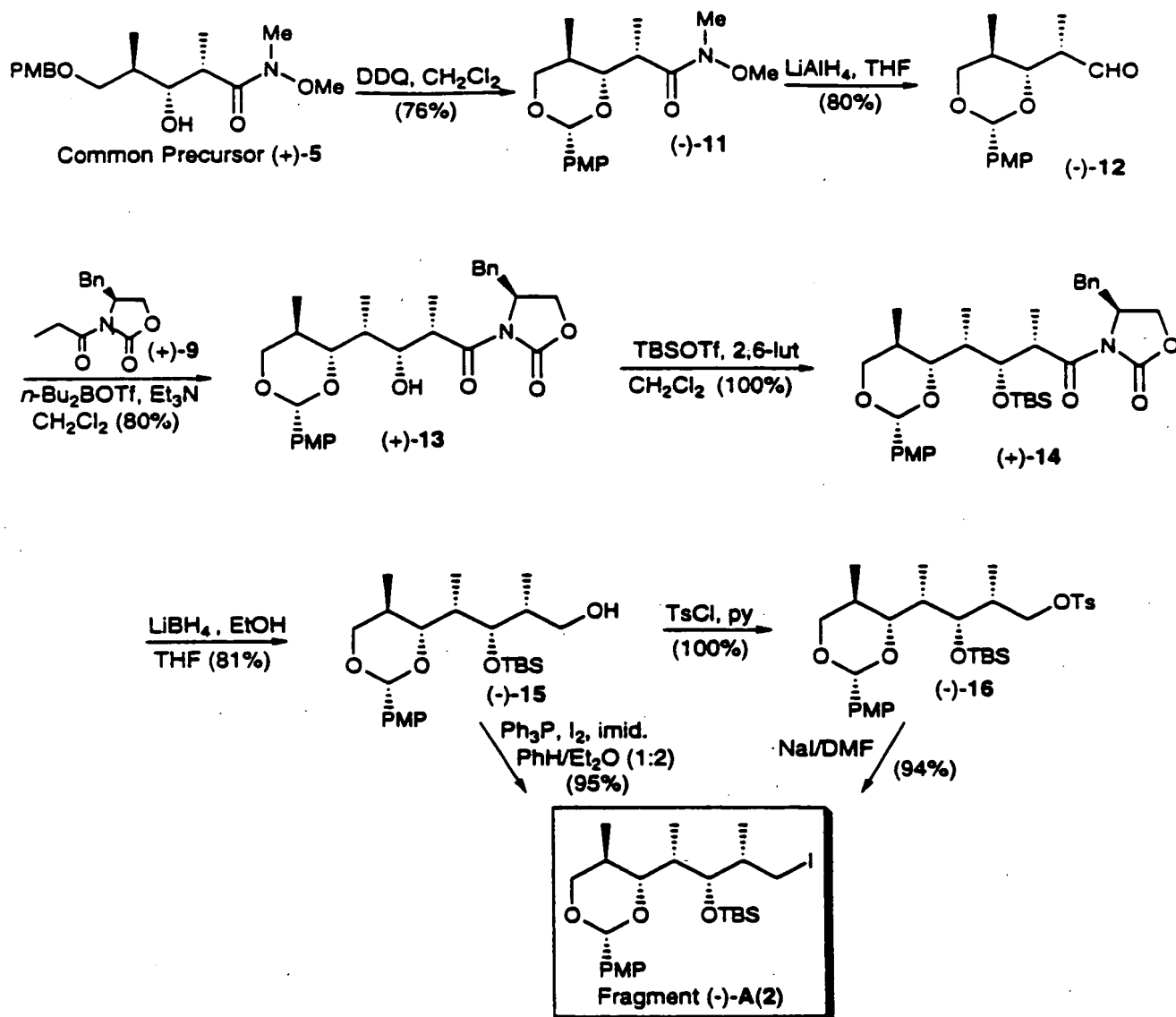


Figure 3



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Figure 5

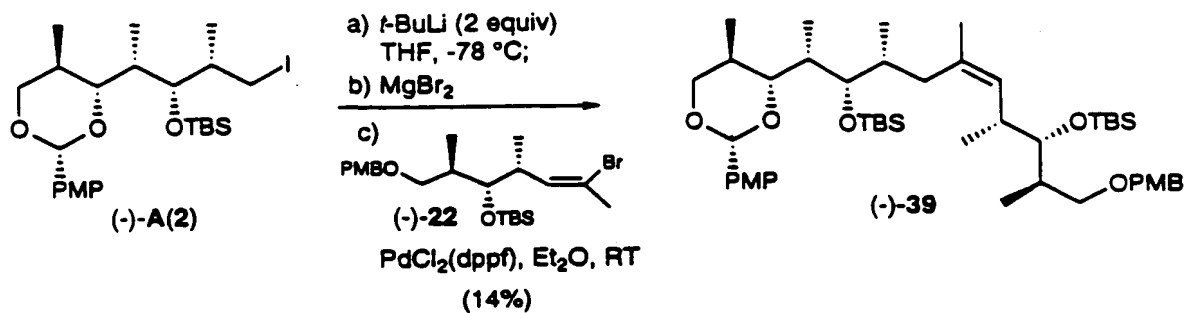


Figure 6

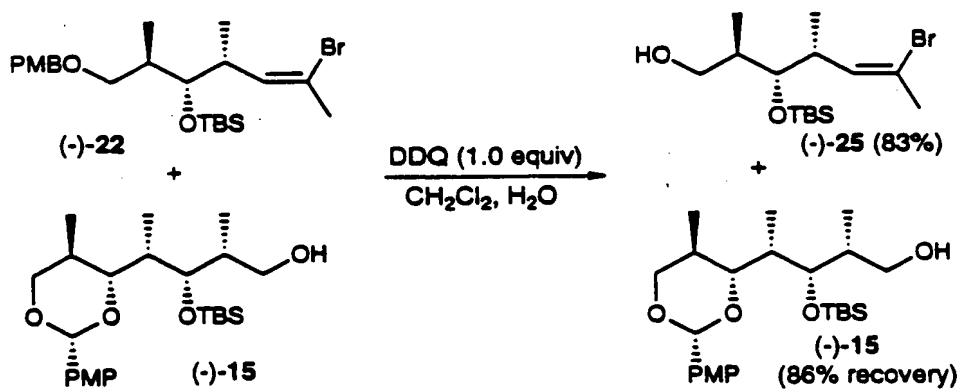


Figure 8

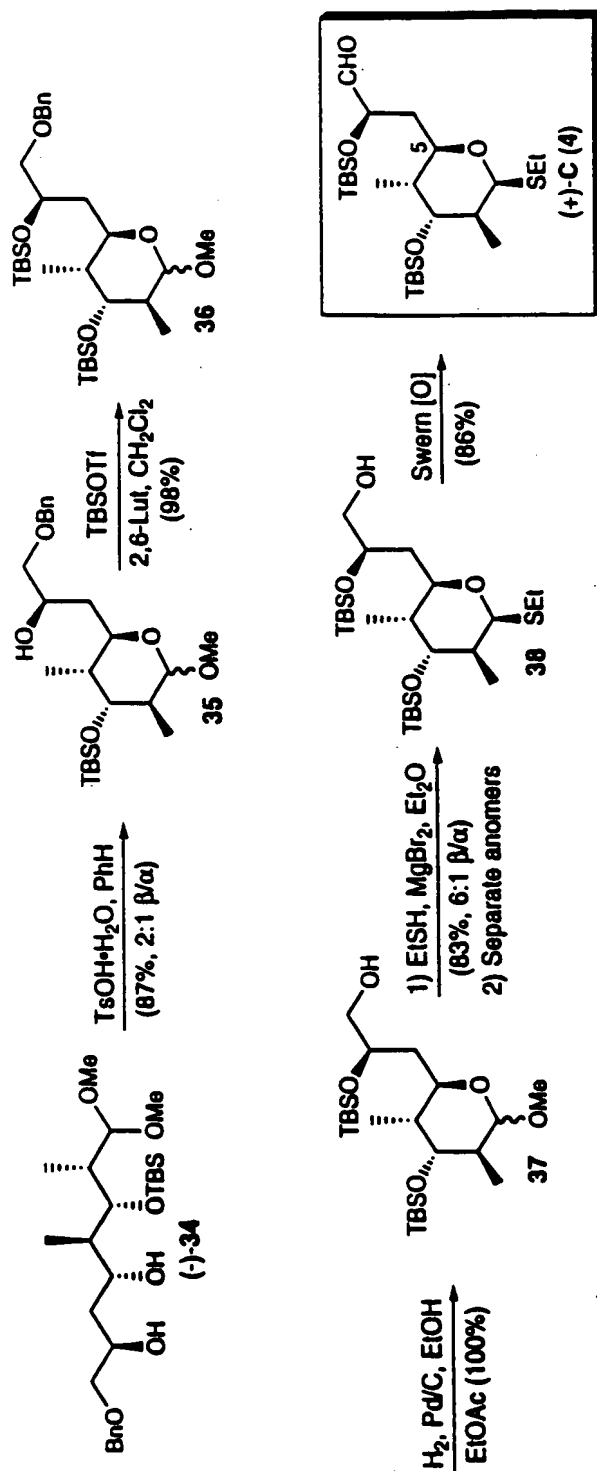


Figure 9

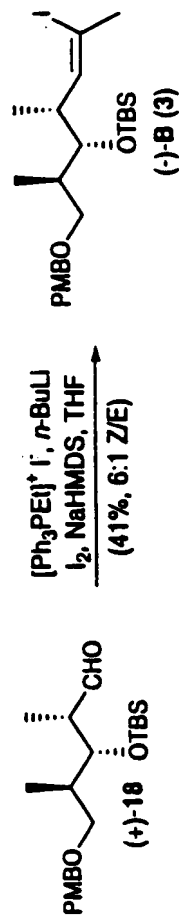


Figure 10

- a) $t\text{-BuLi}$ (3 equiv)
 Et_2O
 $-78^\circ\text{C} \rightarrow \text{RT}$
 b) $(-)\text{-B}$, $\text{Pd}(\text{PPh}_3)_4$
 Et_2O , RT
 c) Separate Z and E isomers (66%)

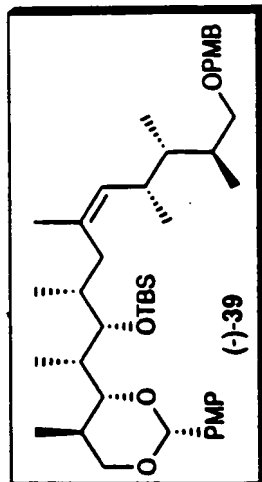
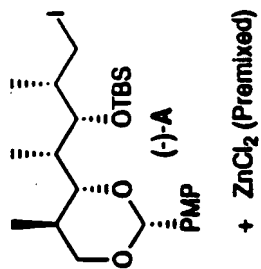


Figure 11

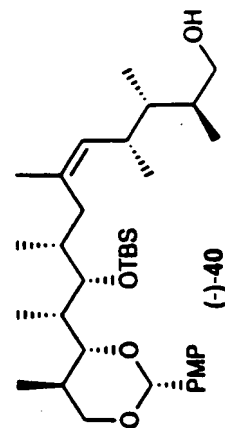
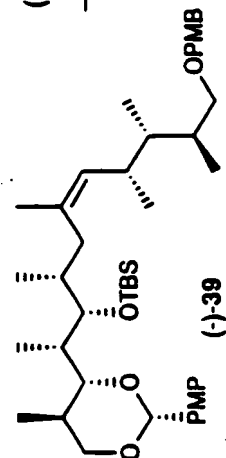
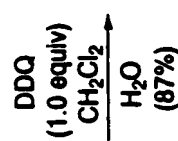


Figure 12

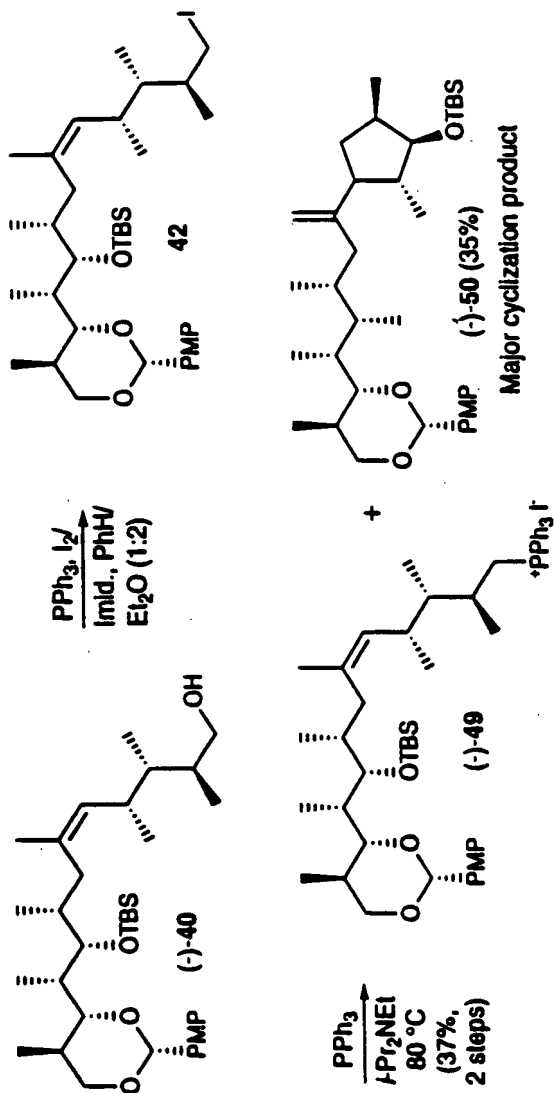


Figure 13

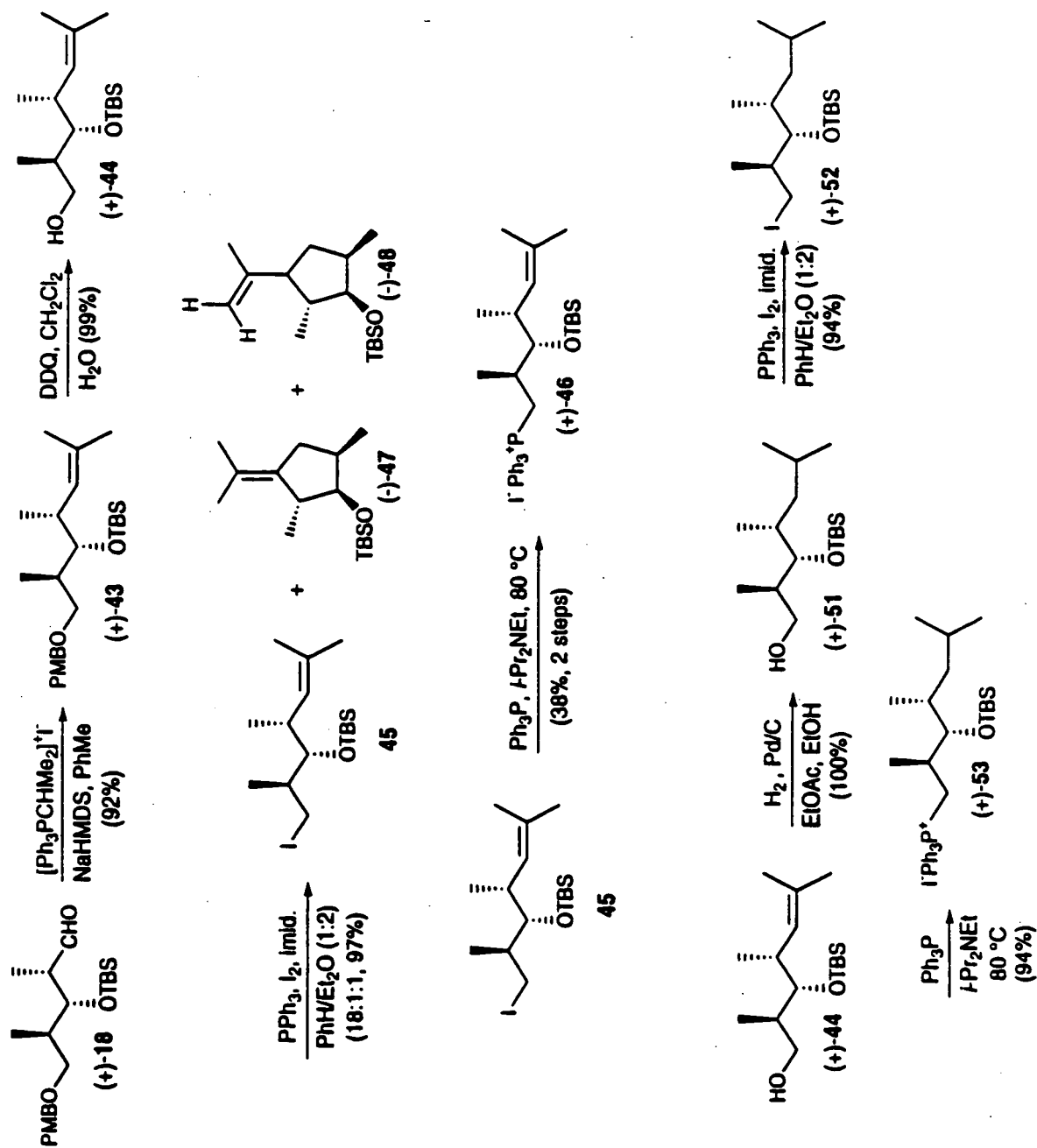


Figure 14

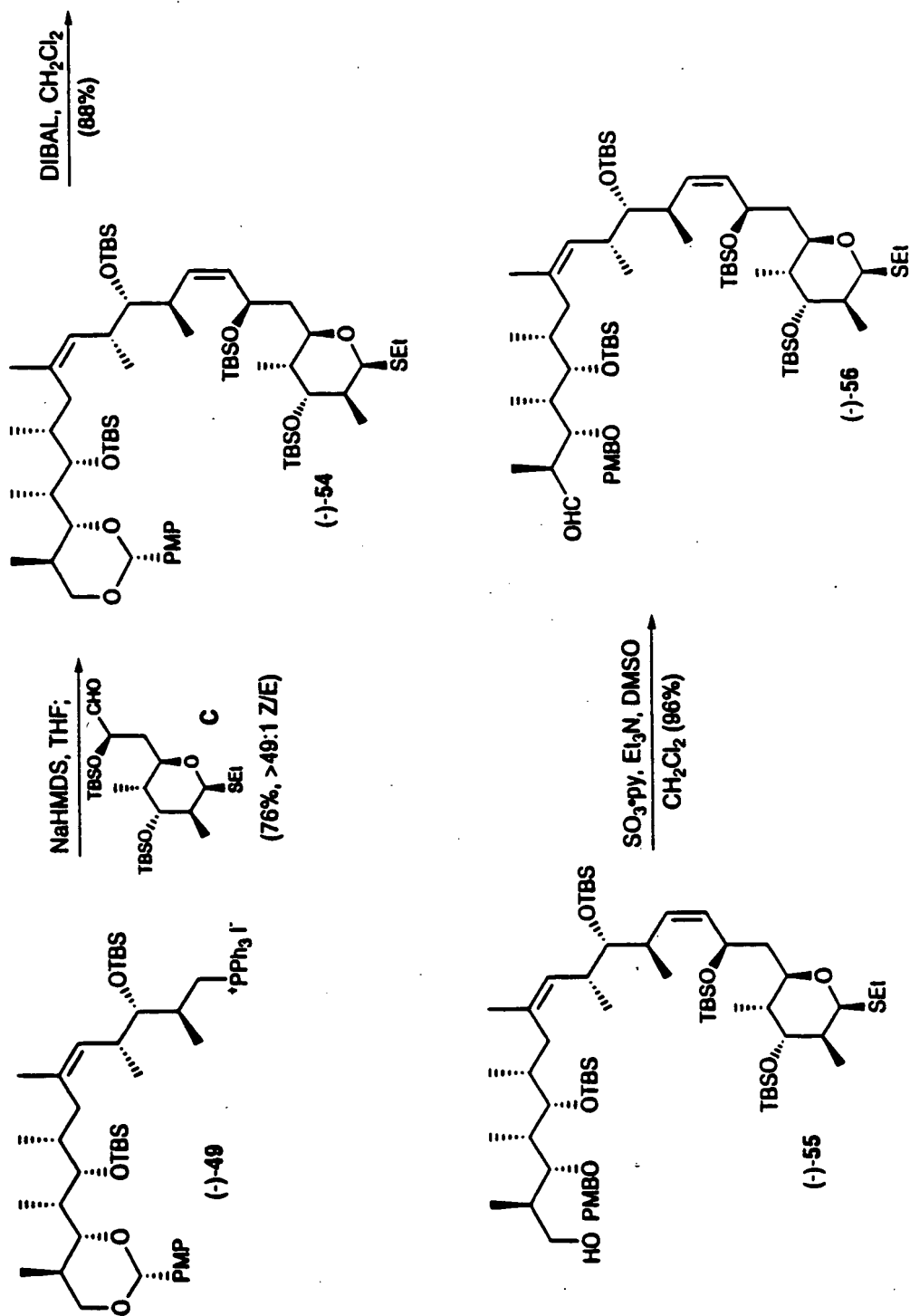


Figure 15

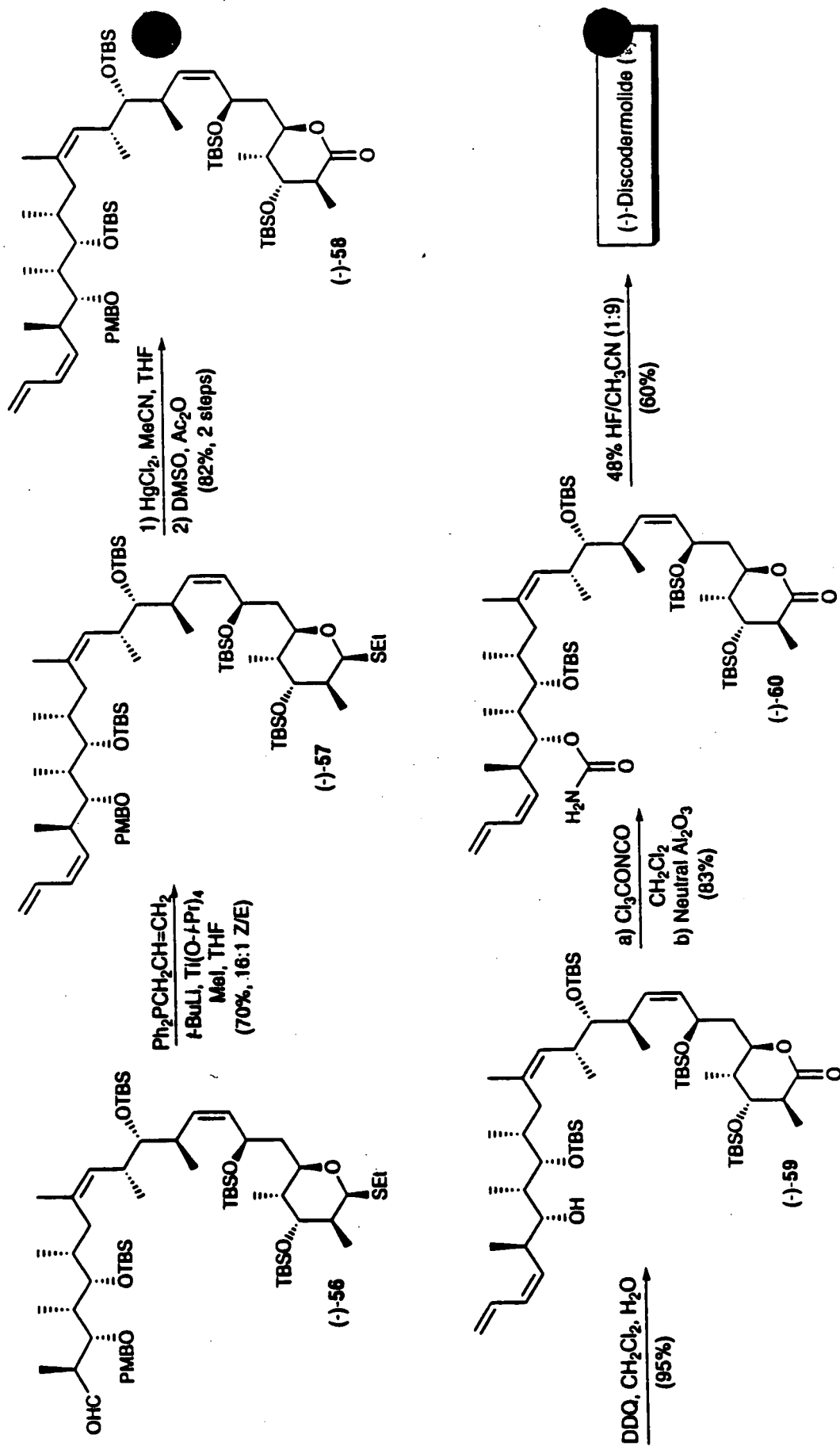


Figure 16

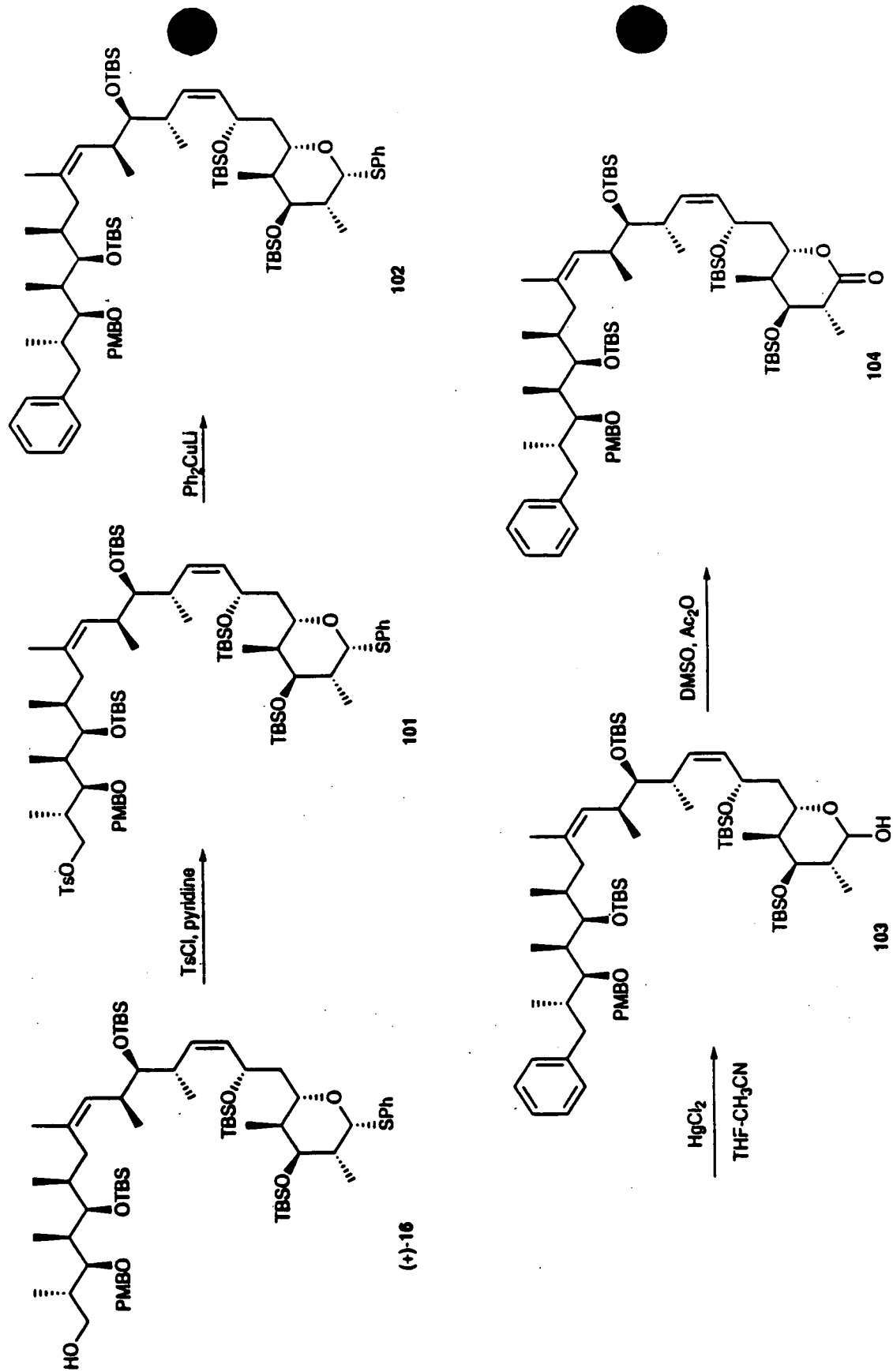


Figure 17

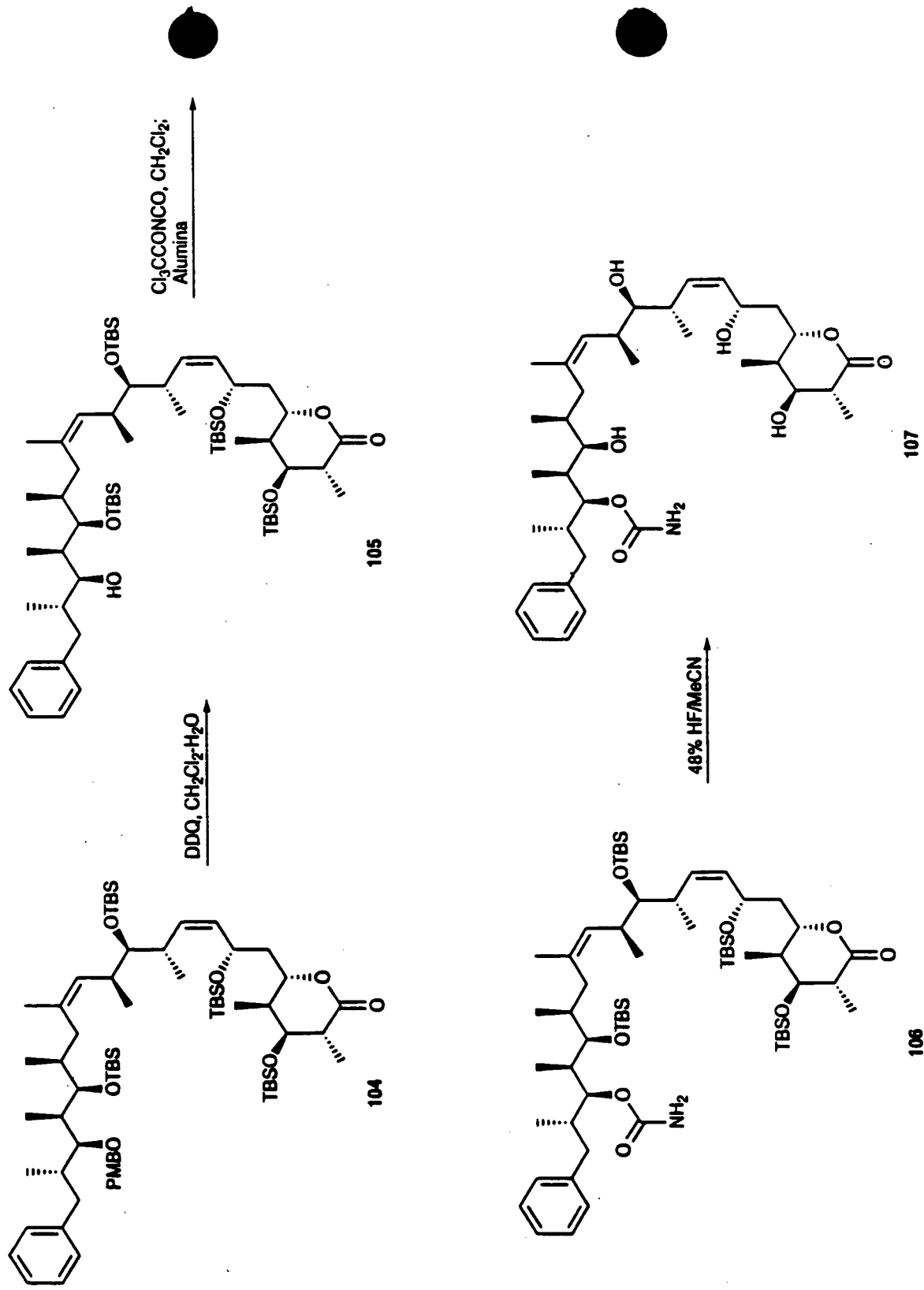


Figure 18

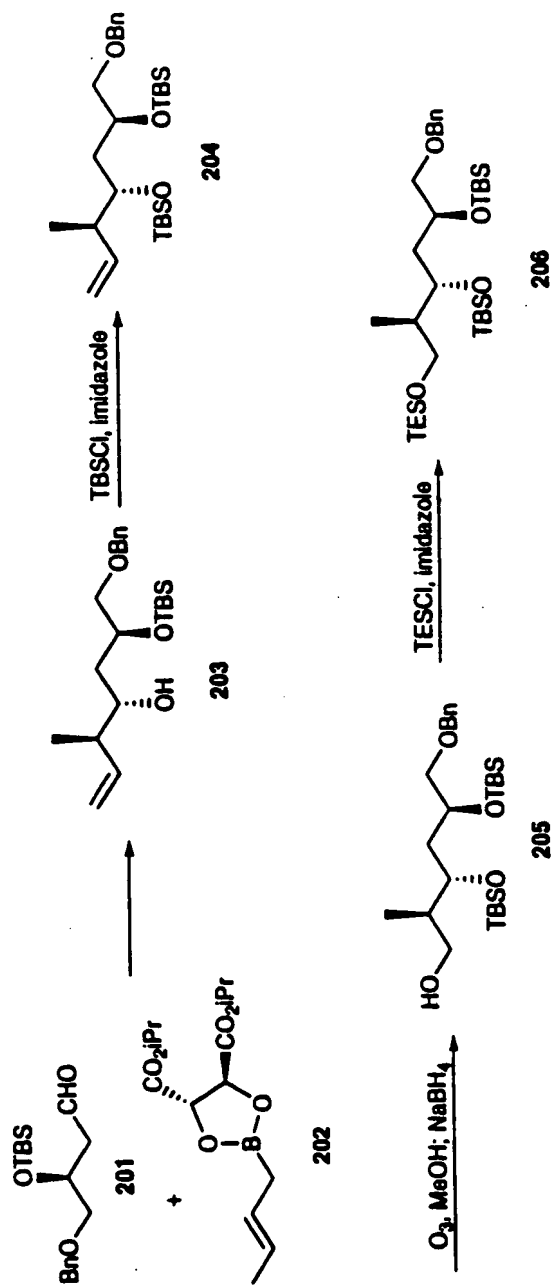


Figure 19

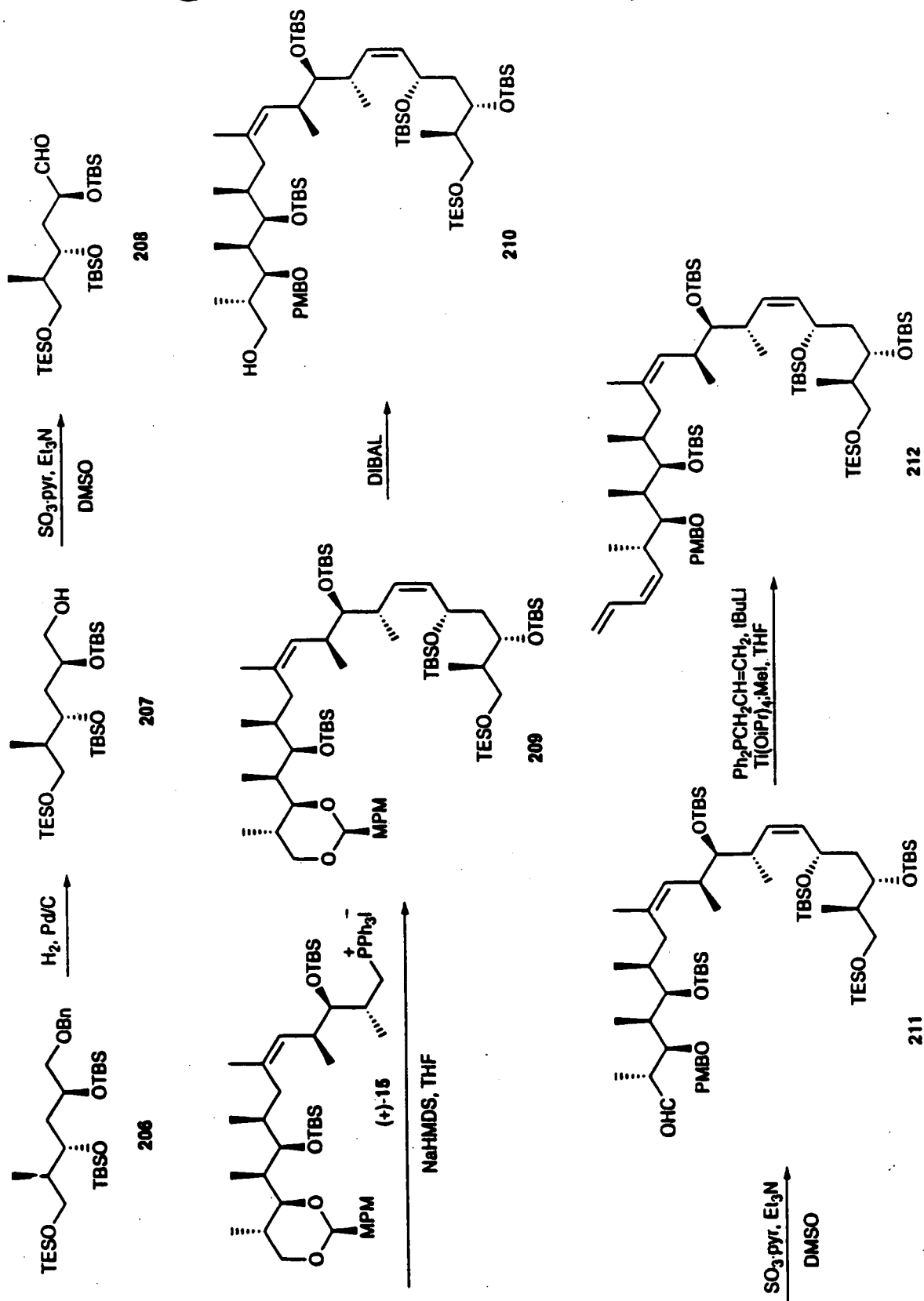


Figure 20

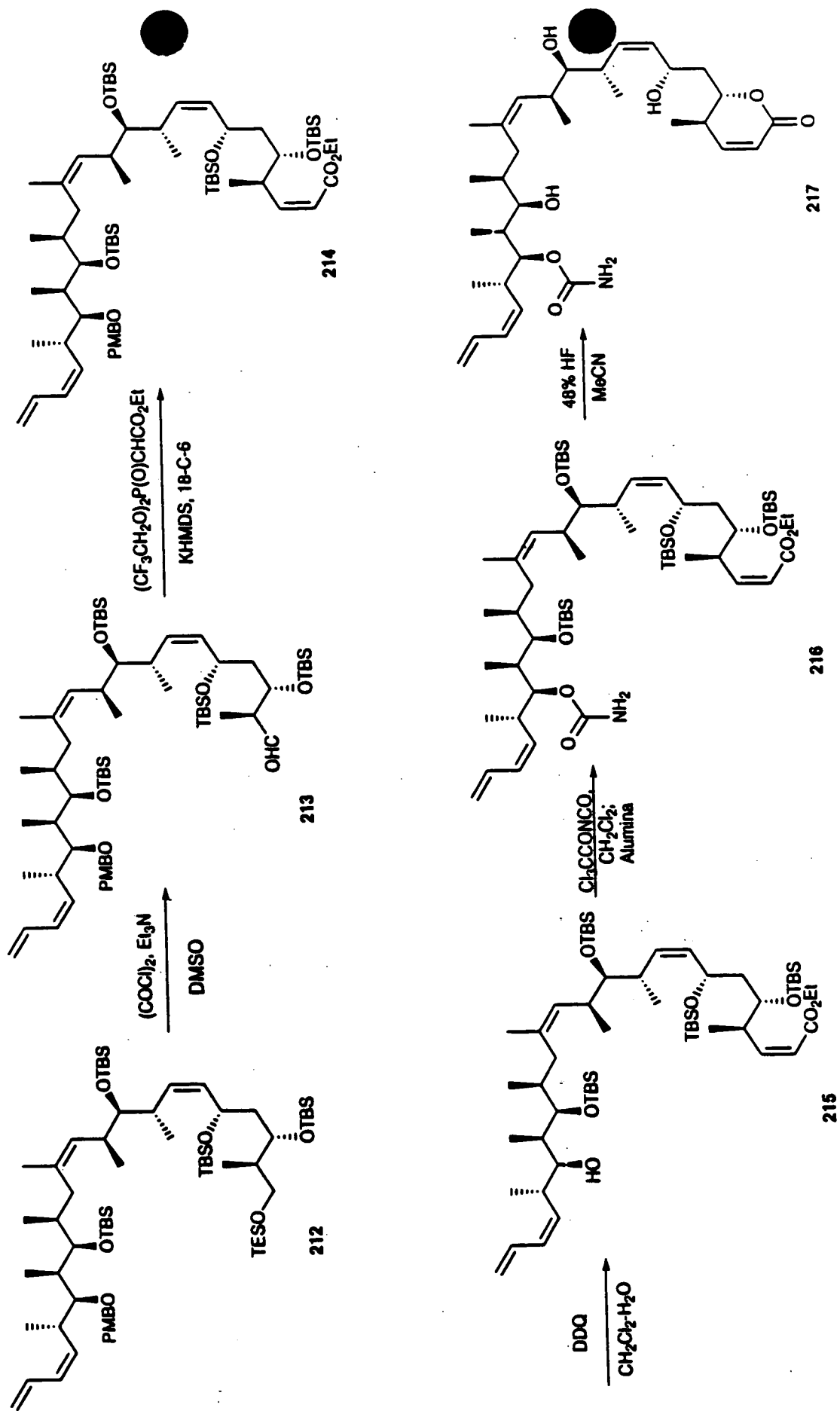


Figure 21

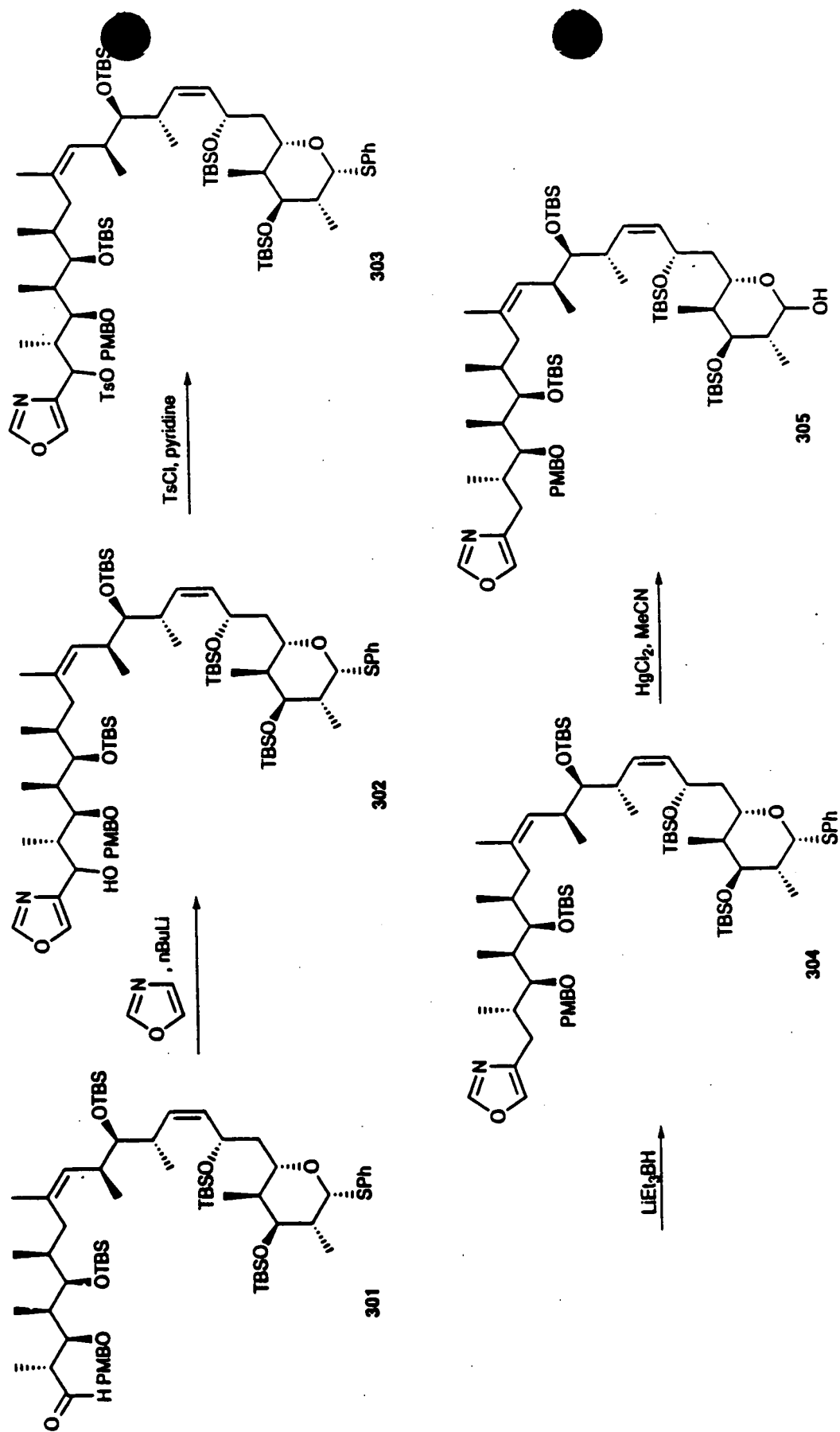


Figure 22

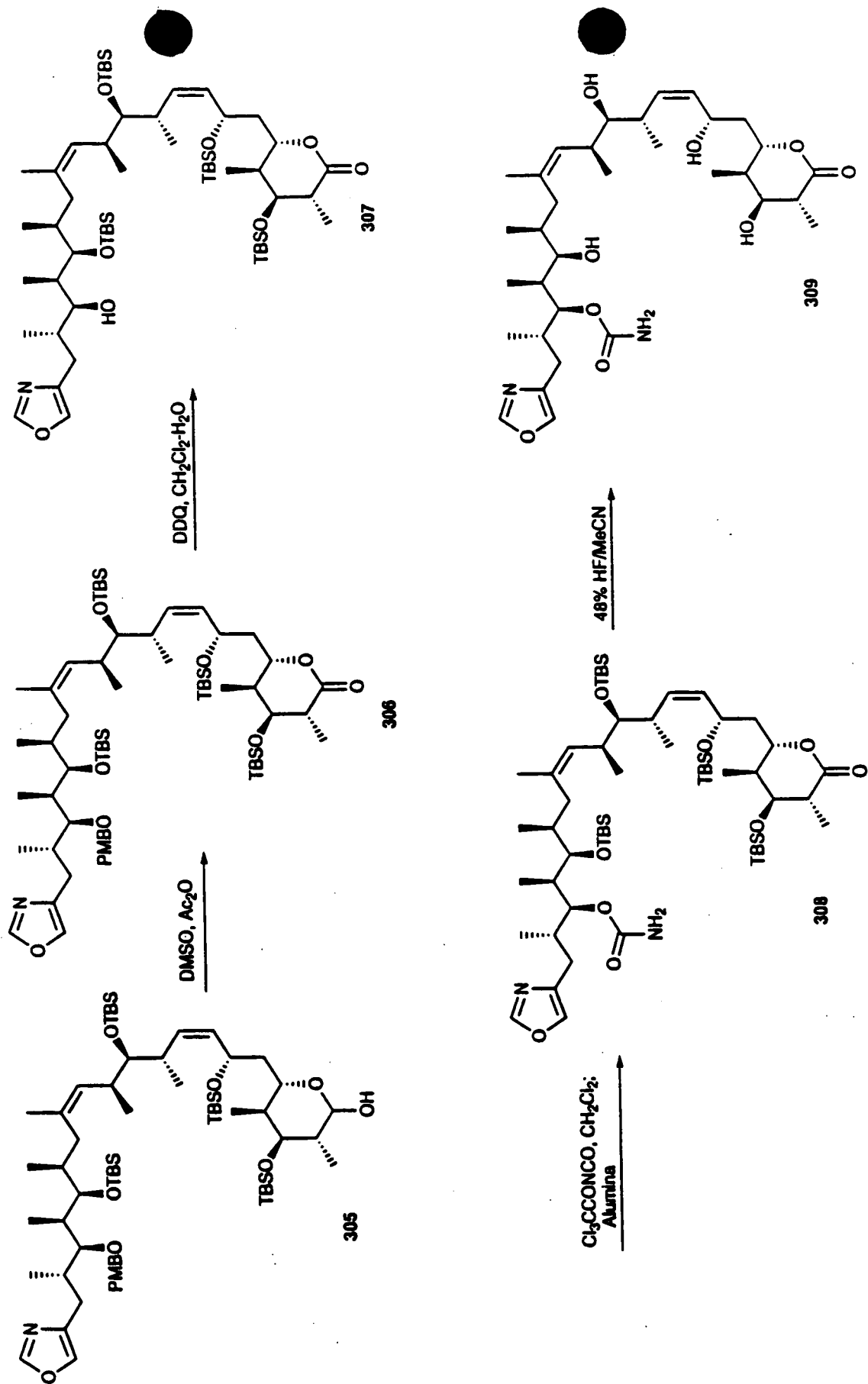


Figure 23

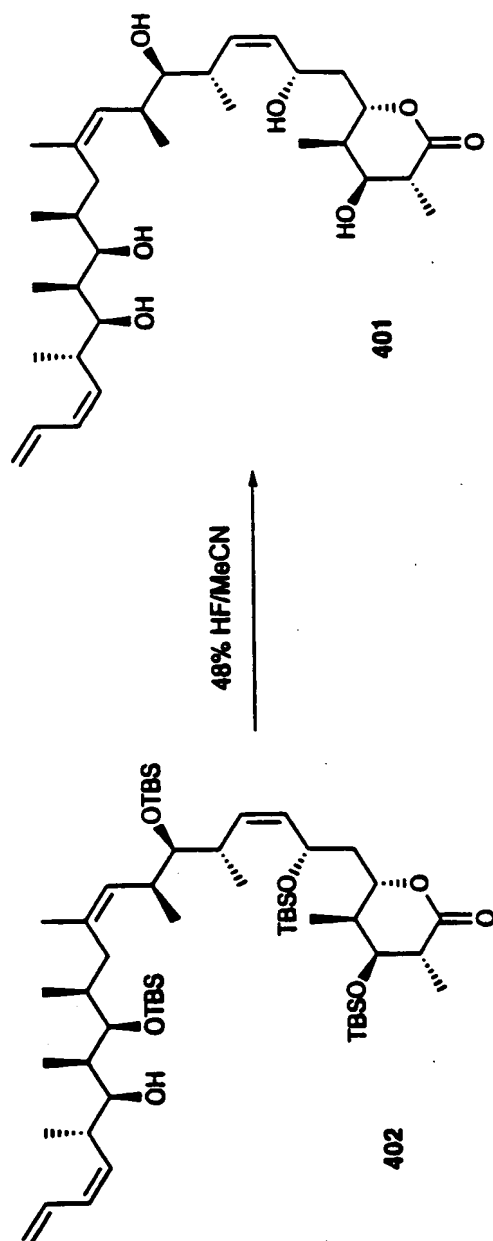


Figure 24

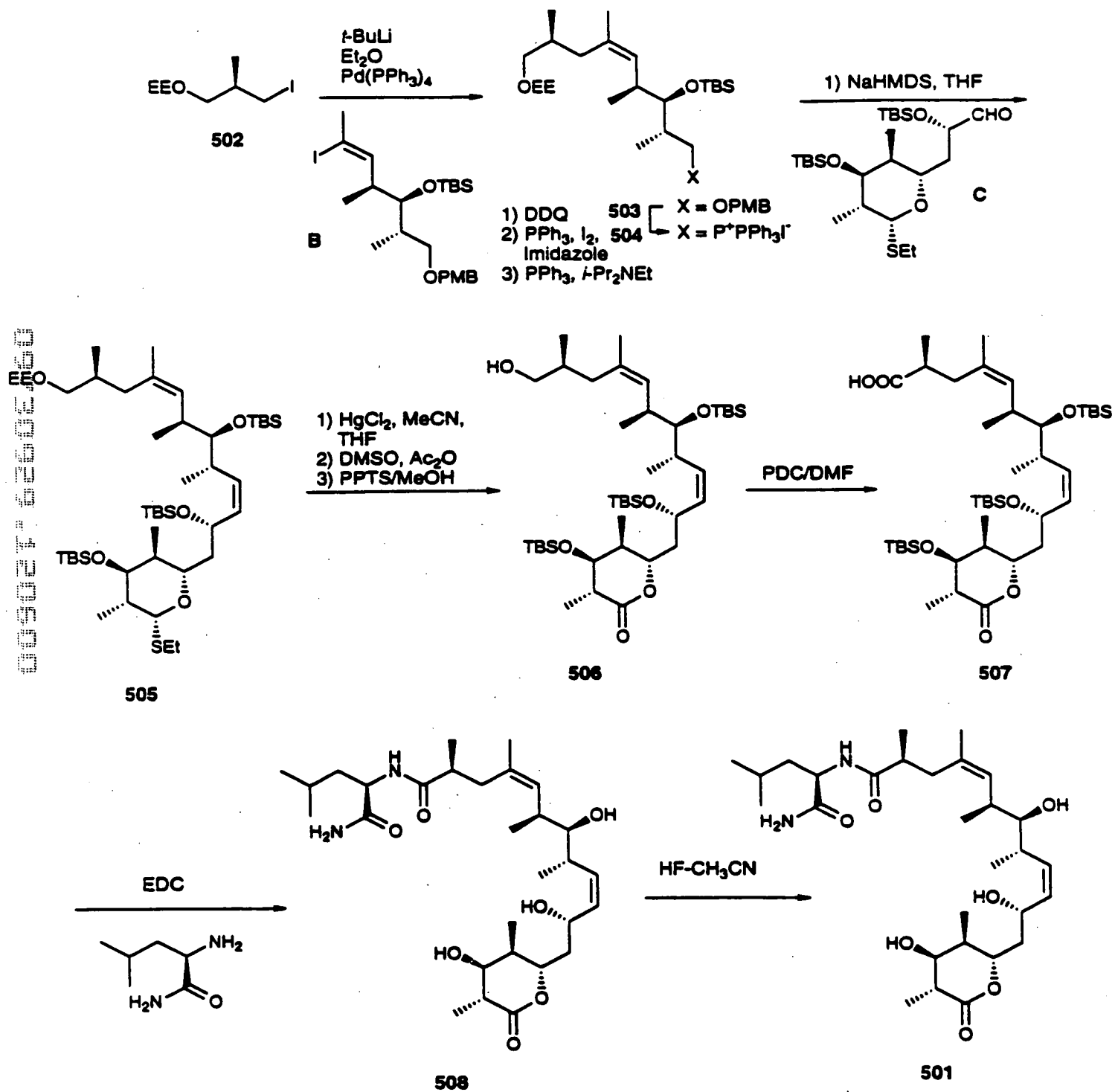
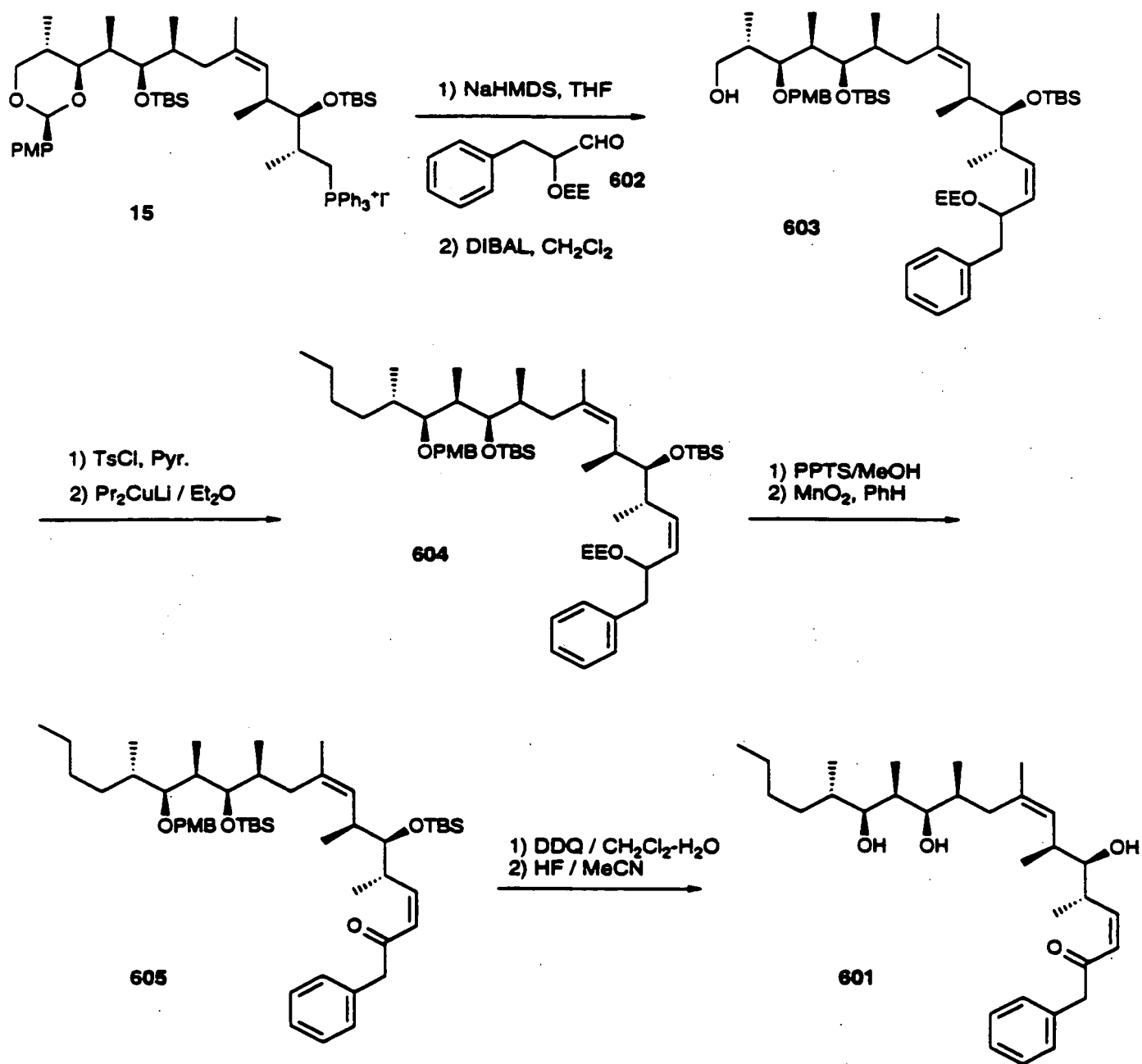
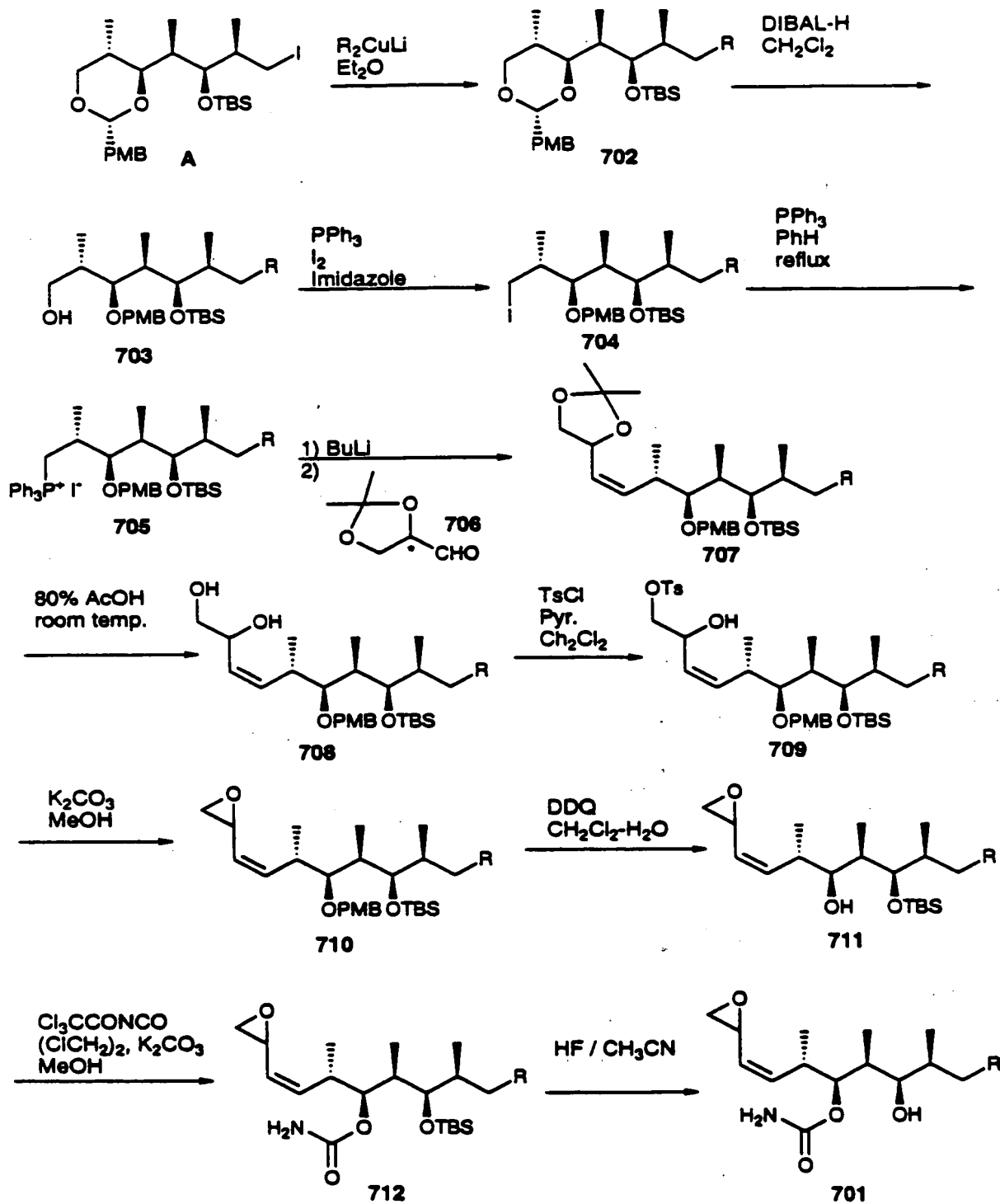


Figure 25



003021 62602460

Figure 26



009027 6260260

Figure 27

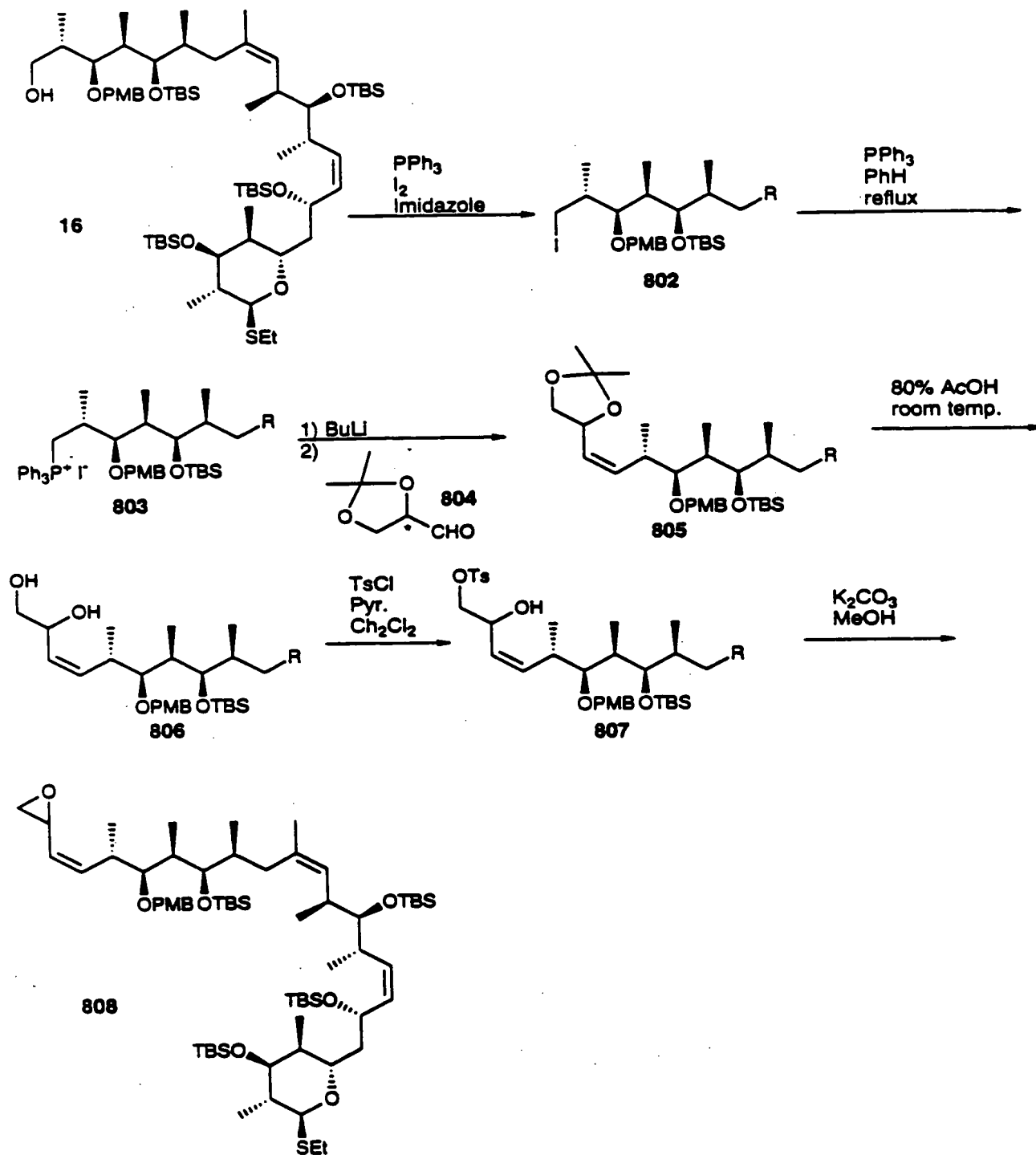


Figure 28

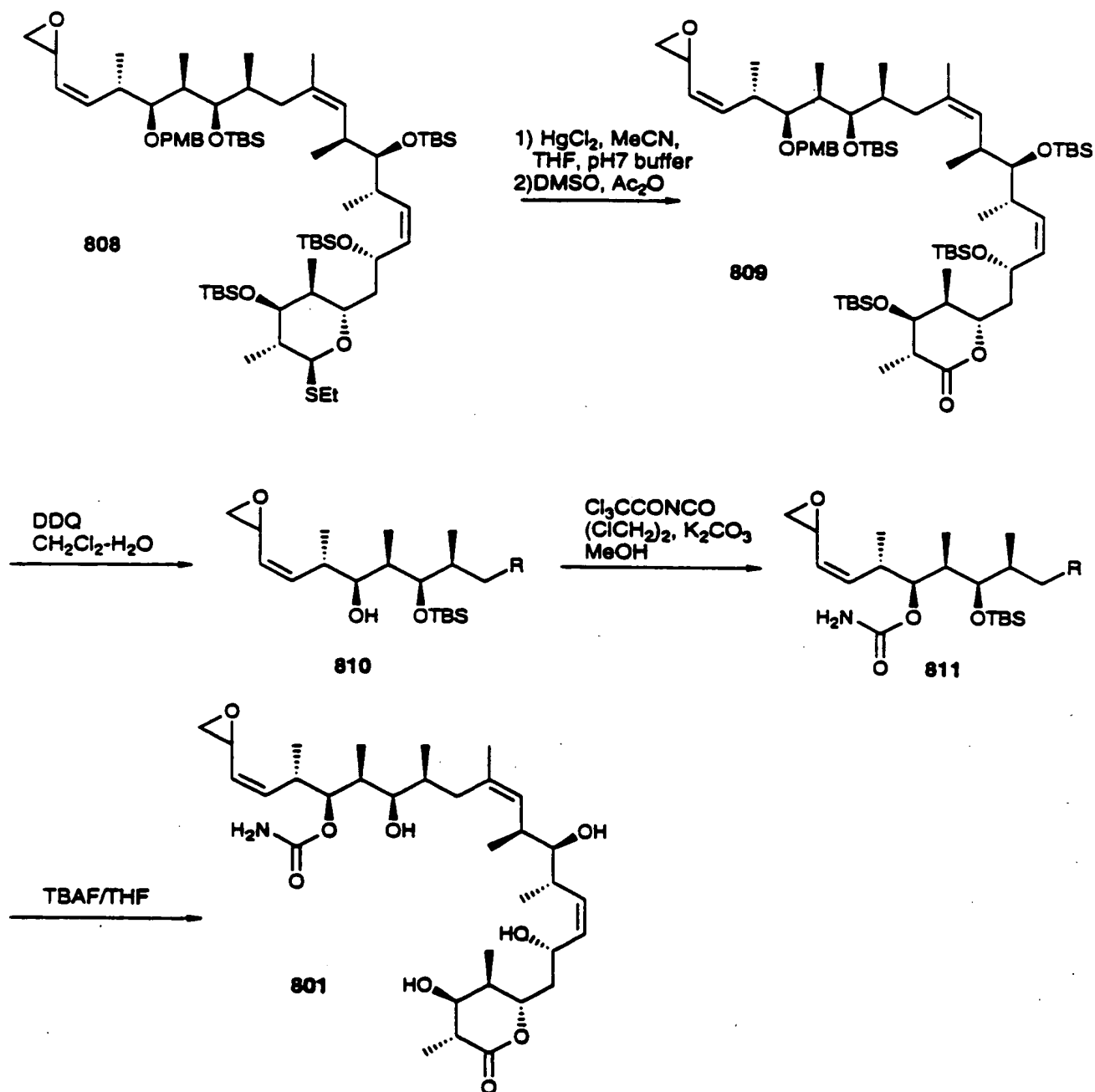


Figure 29

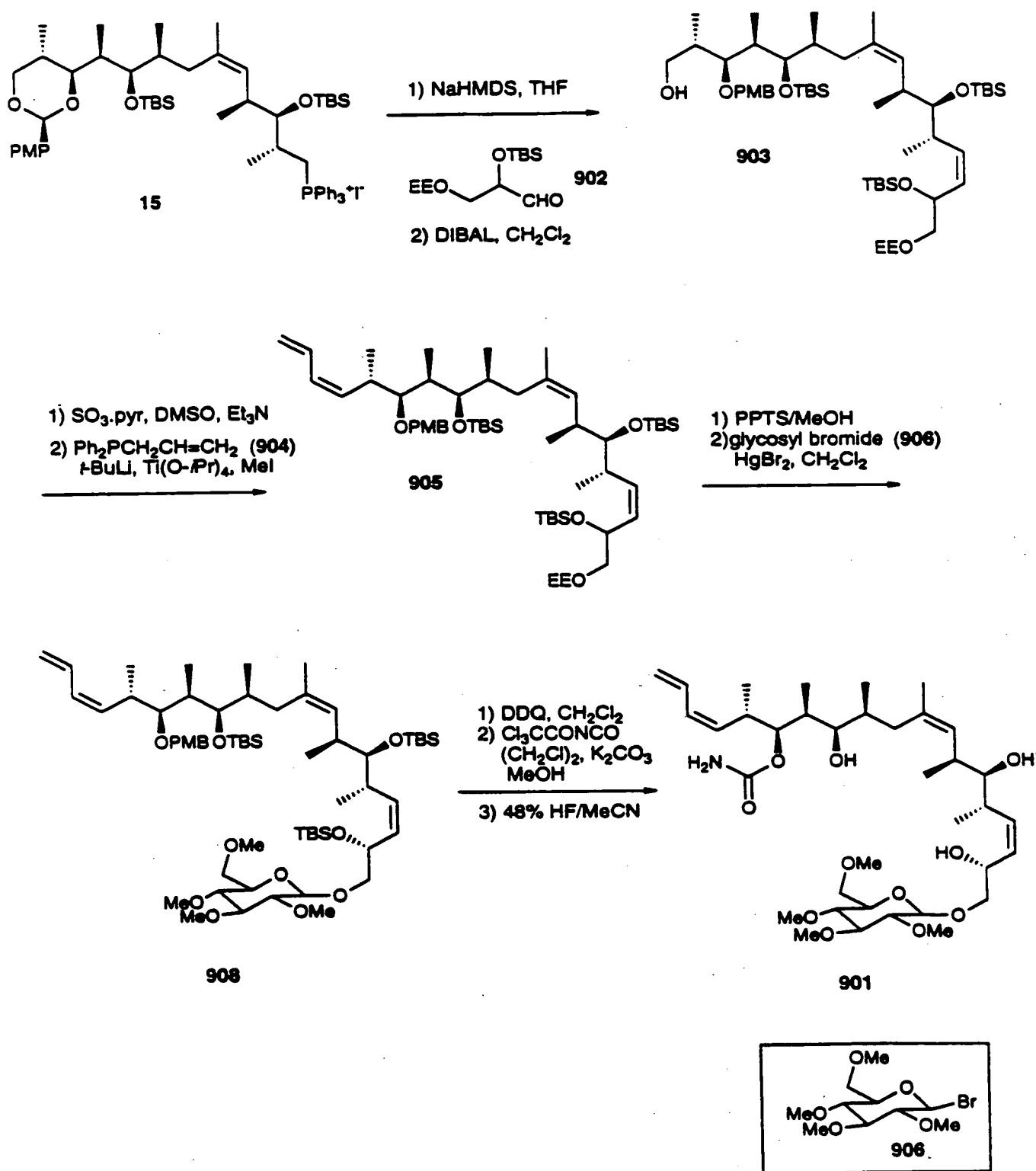


Figure 30

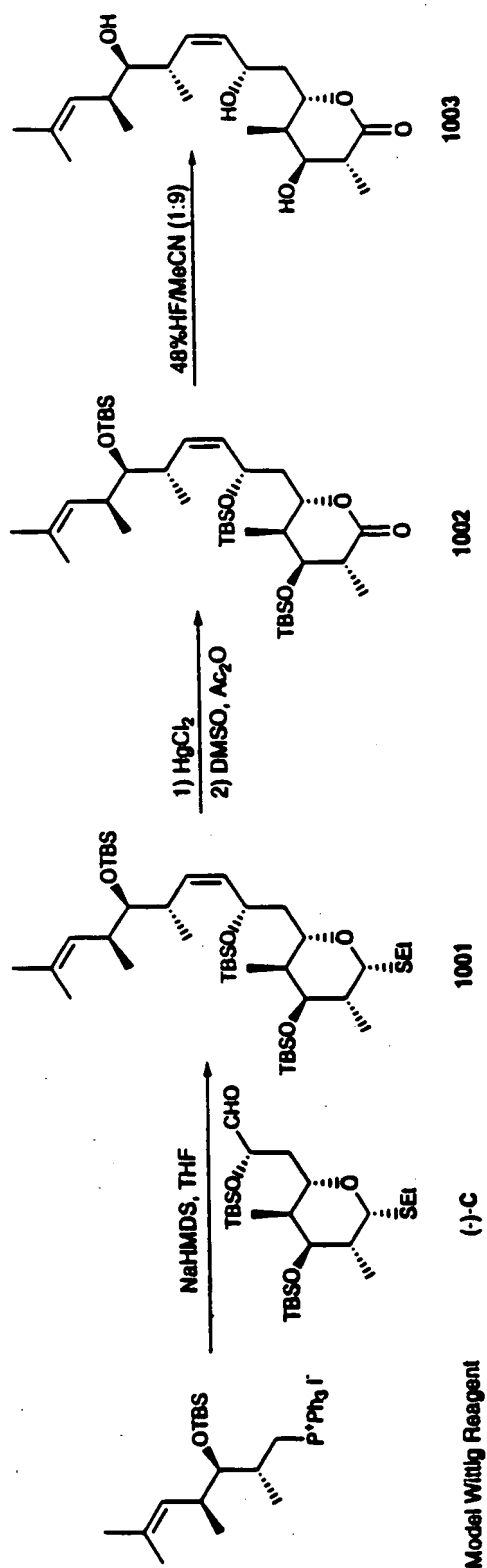
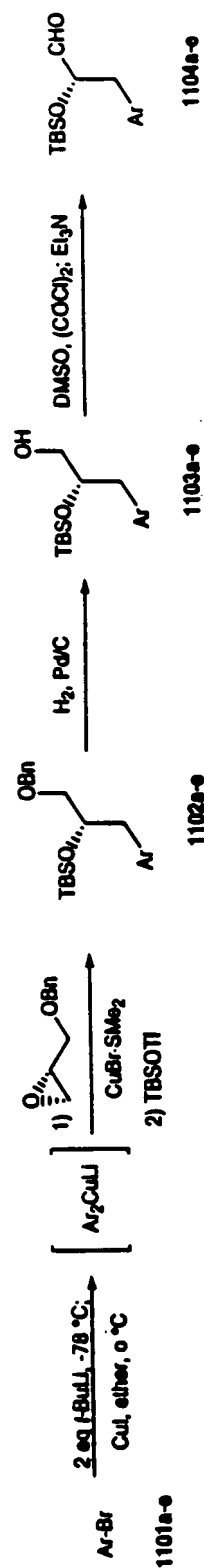
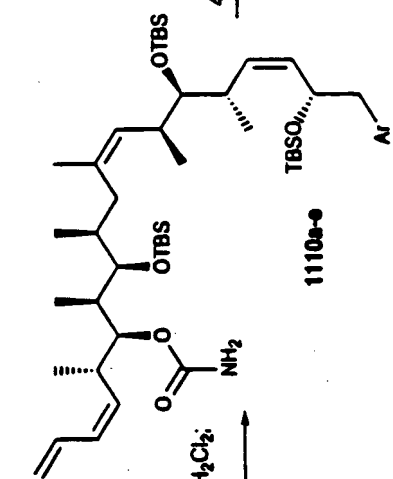
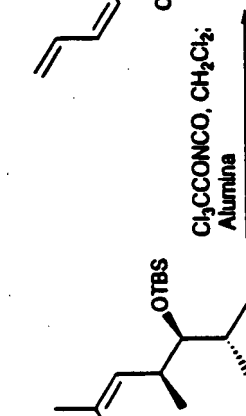
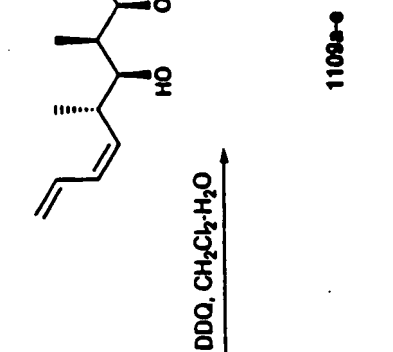
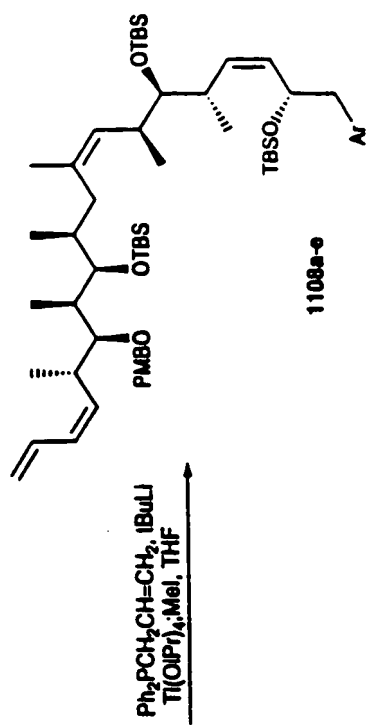
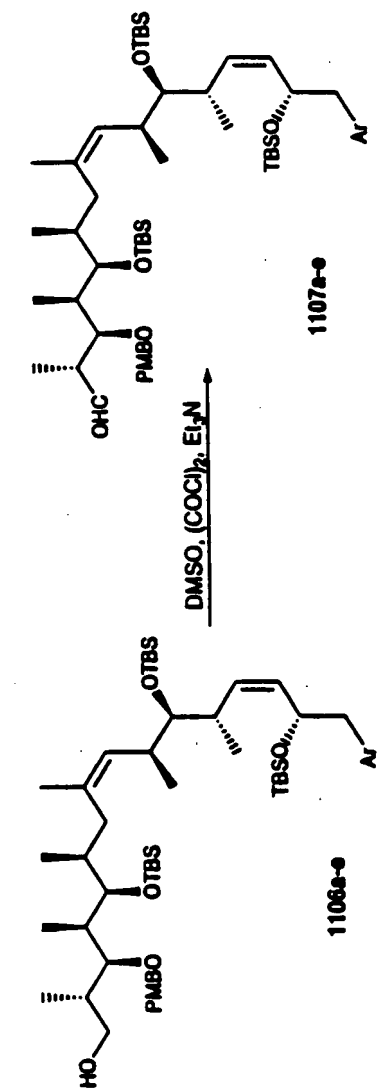
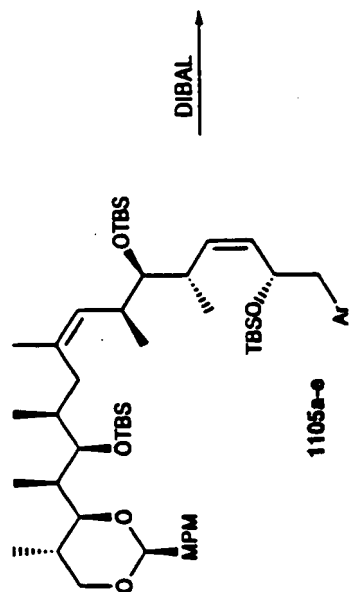
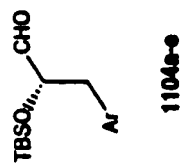
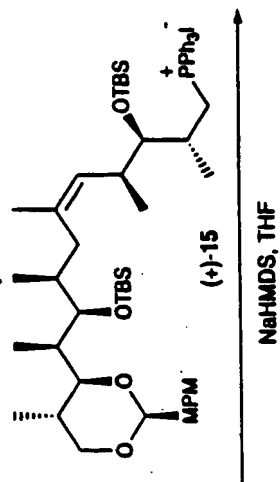
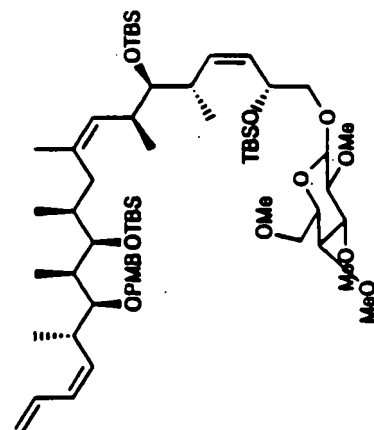
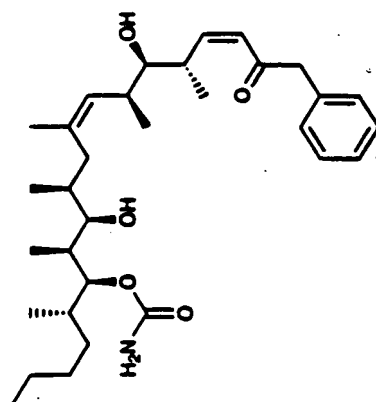
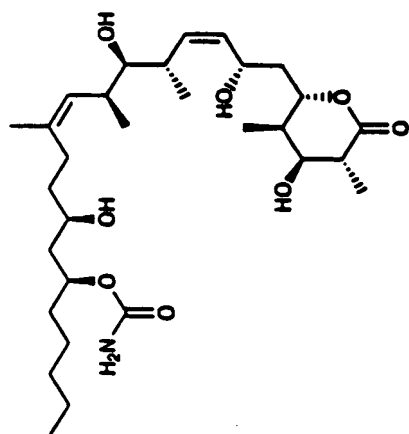
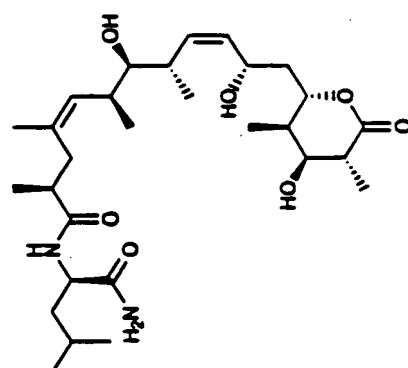
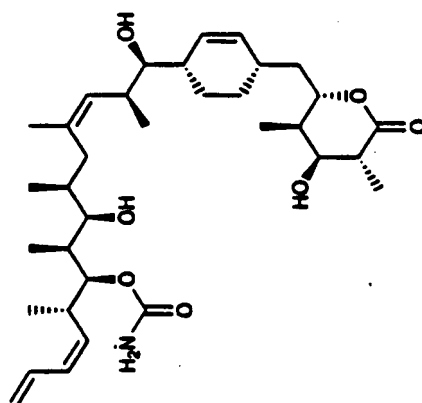
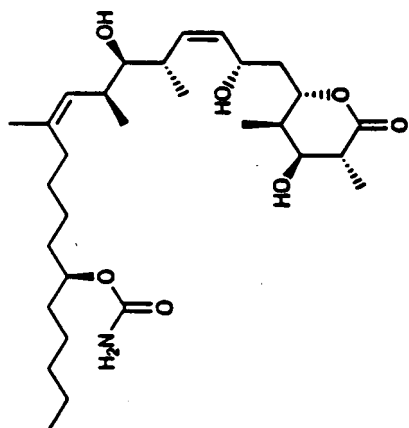
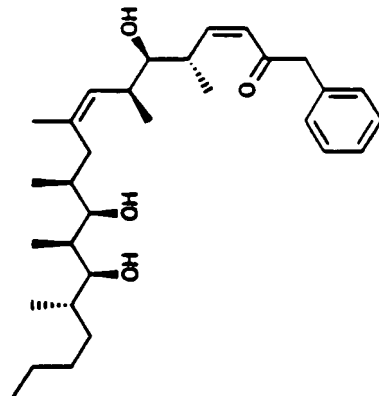
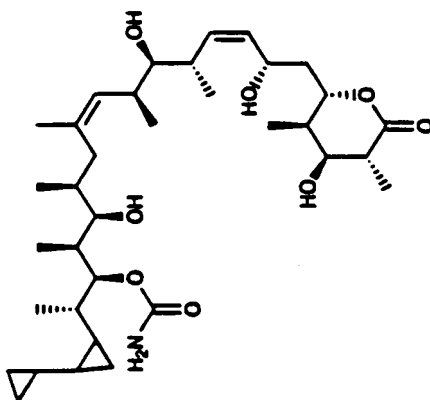
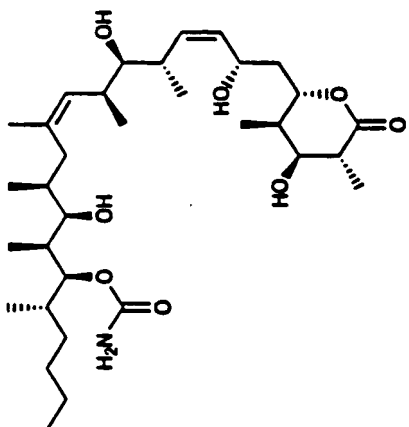
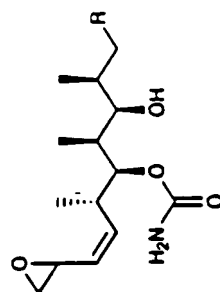
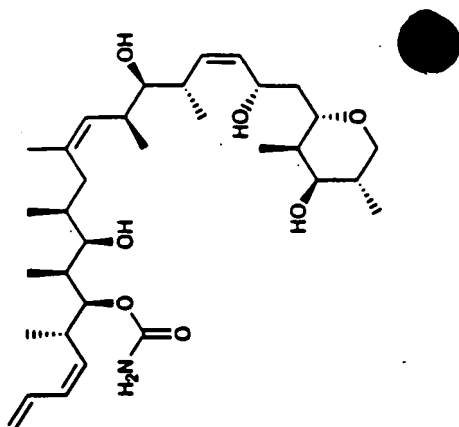
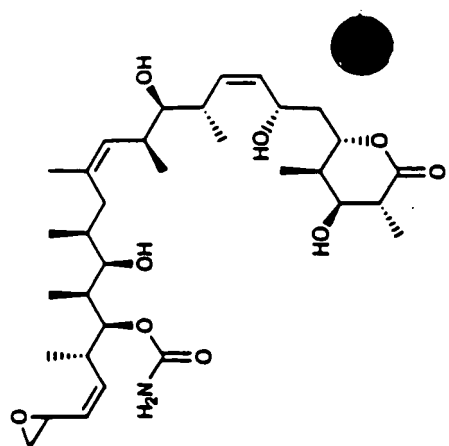
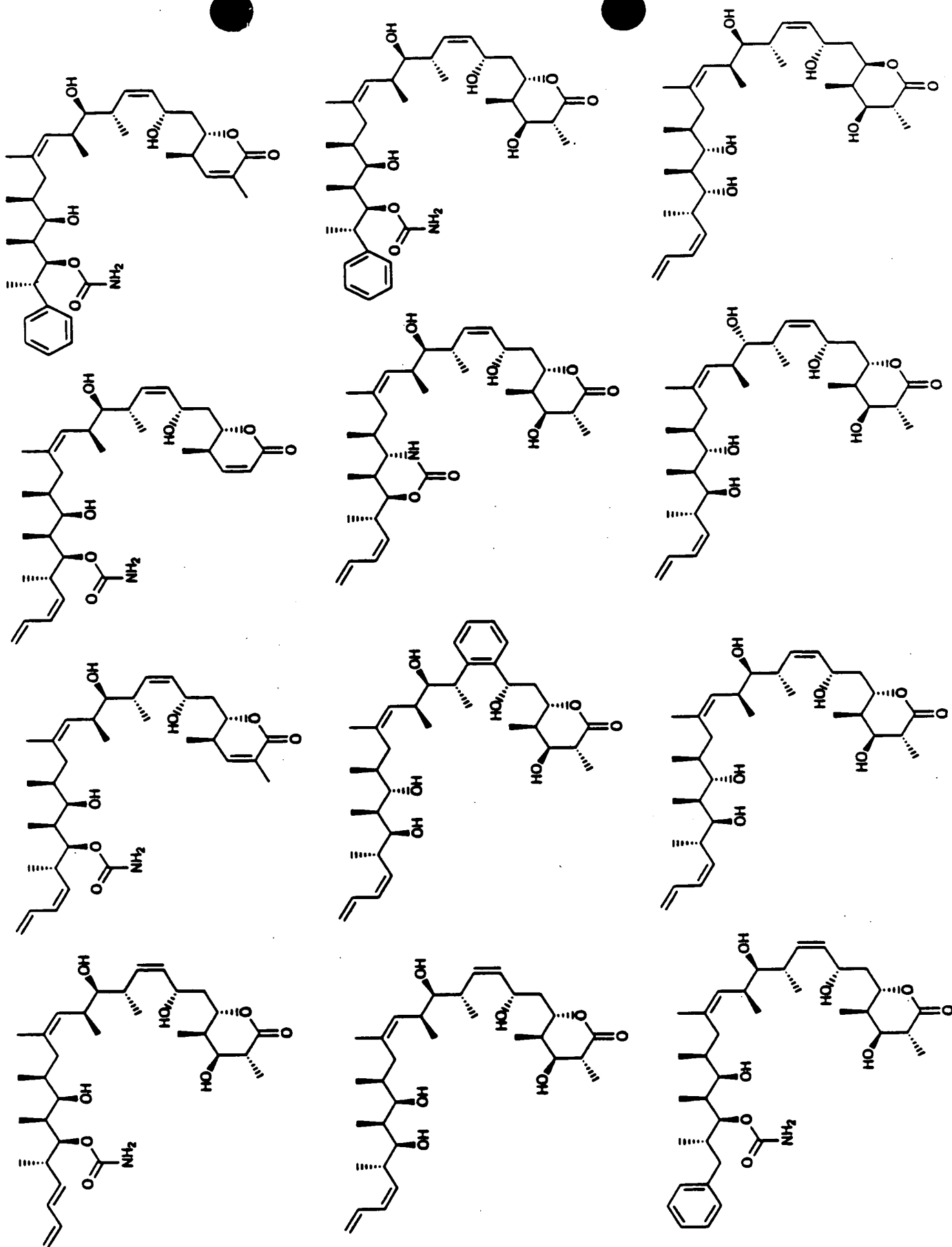


Figure 31









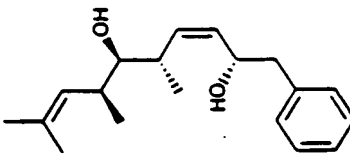
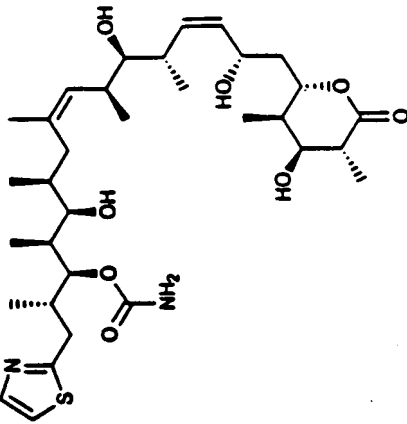
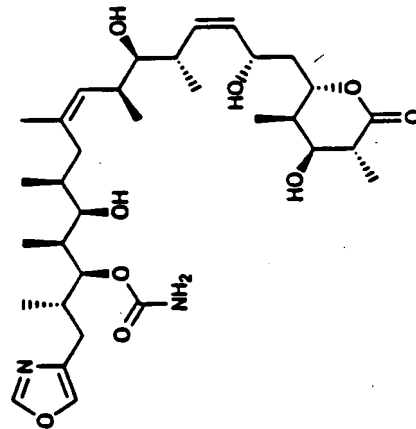
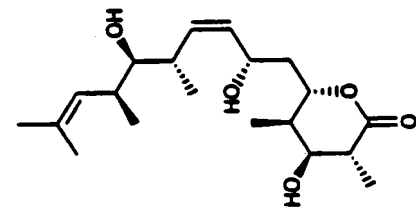
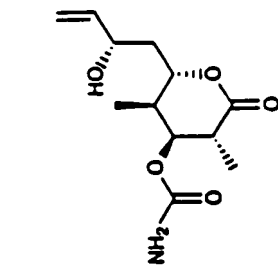
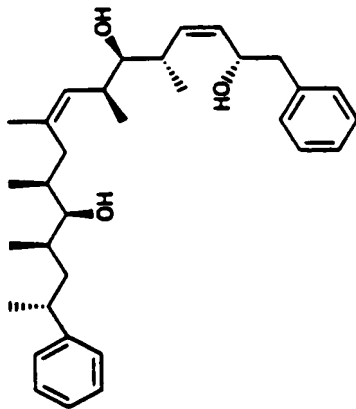
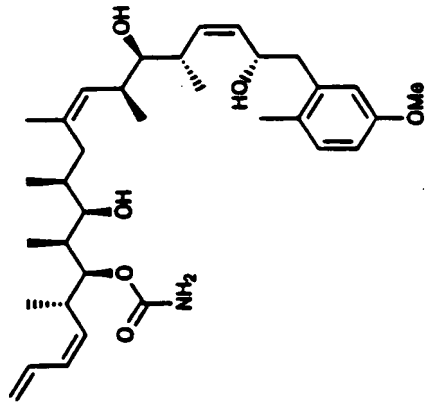
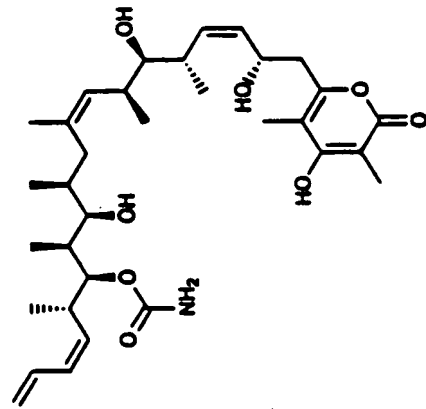
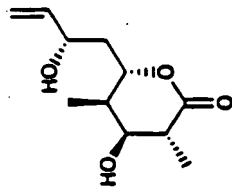
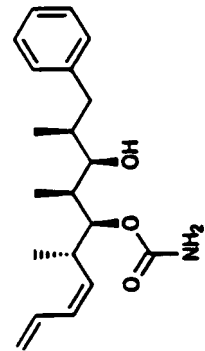
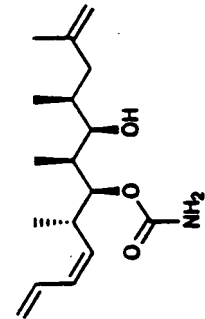
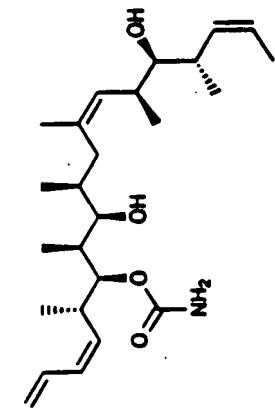


Figure 36

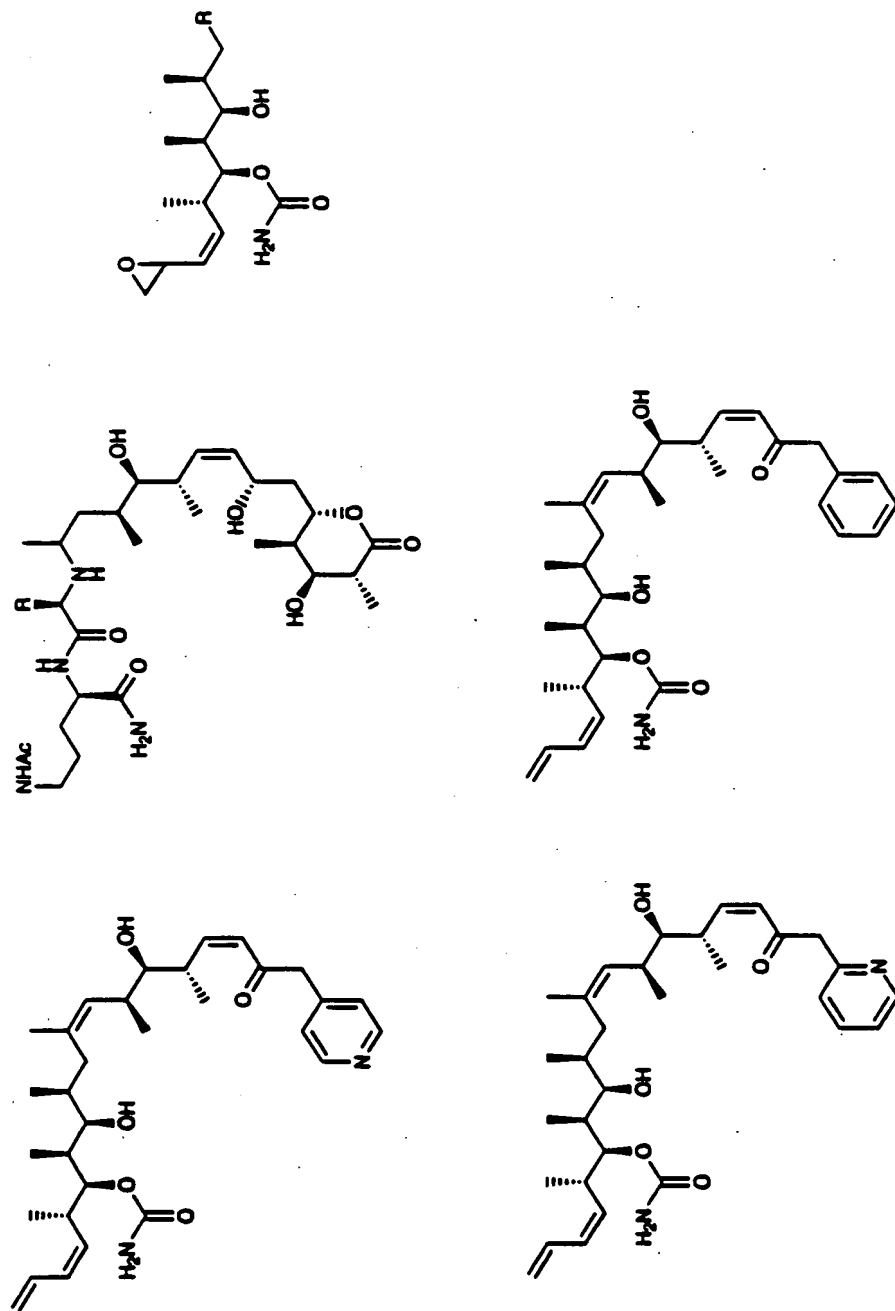


Figure 37

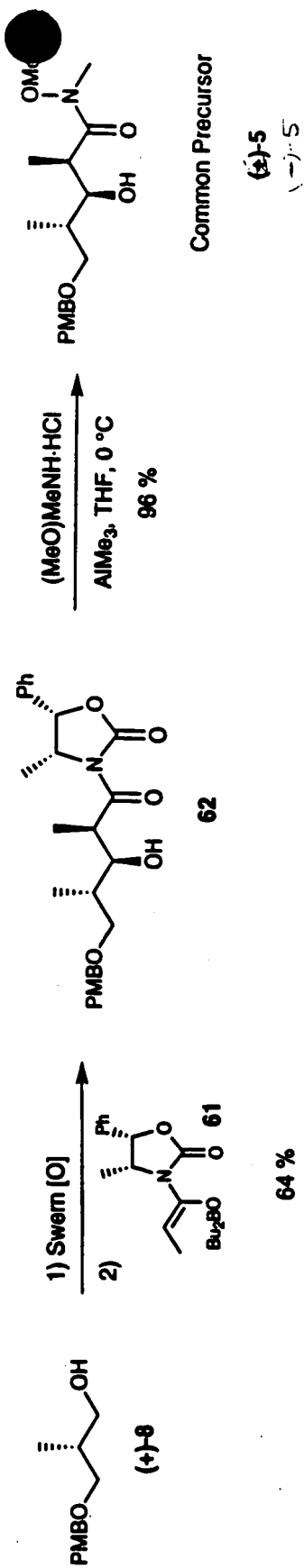


Figure 38

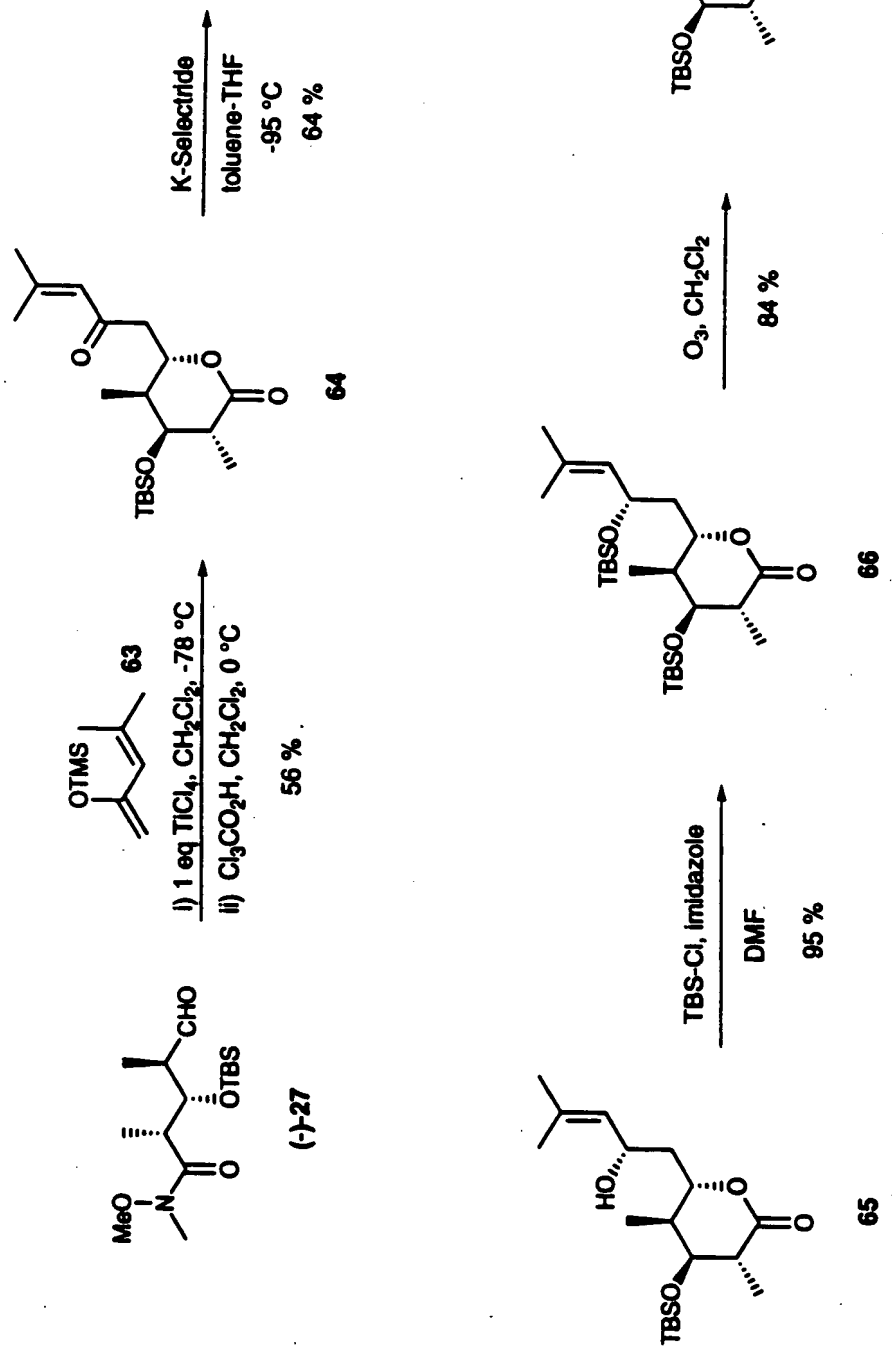


Figure 39

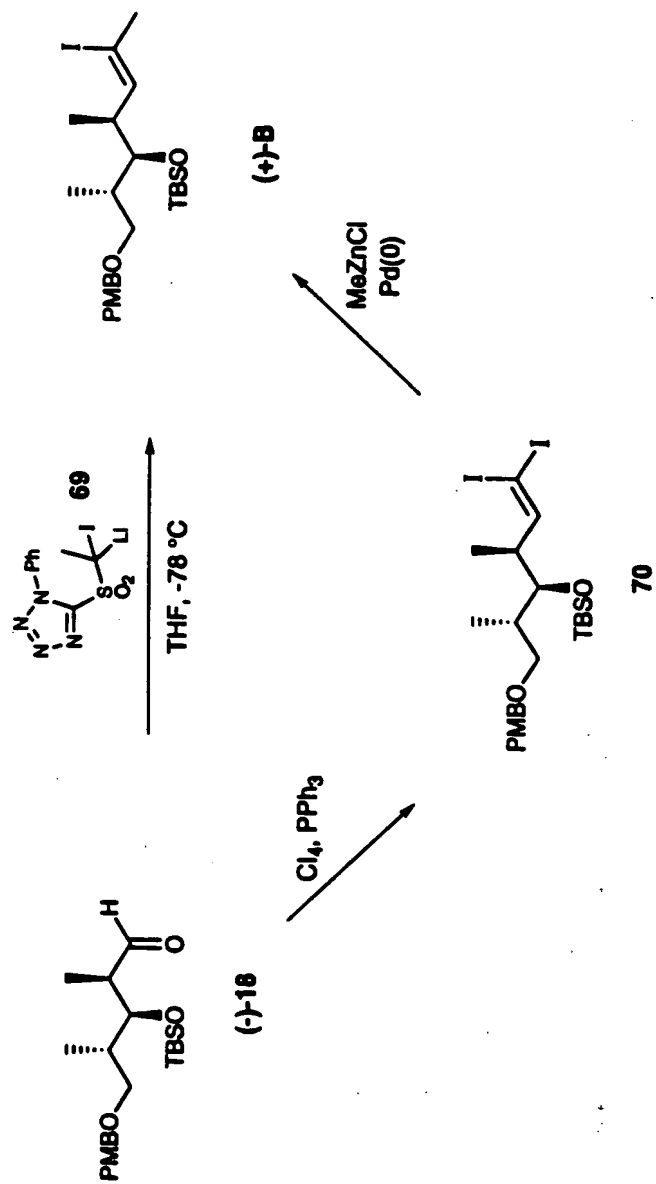


Figure 40

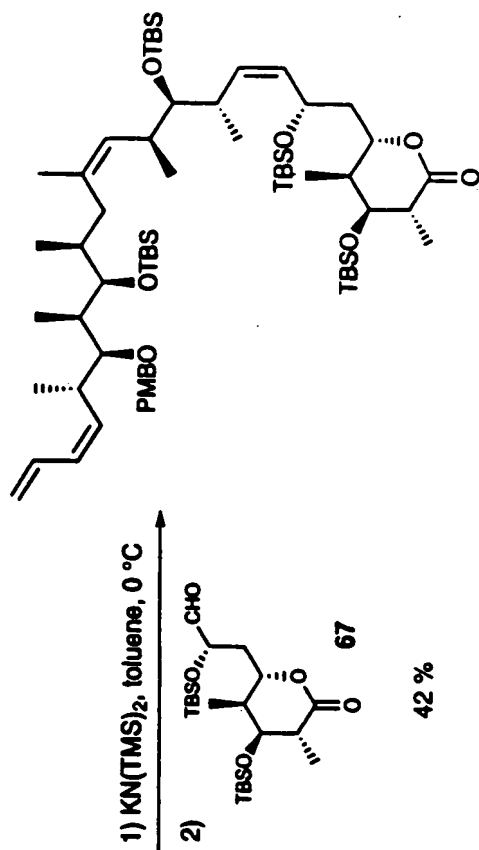
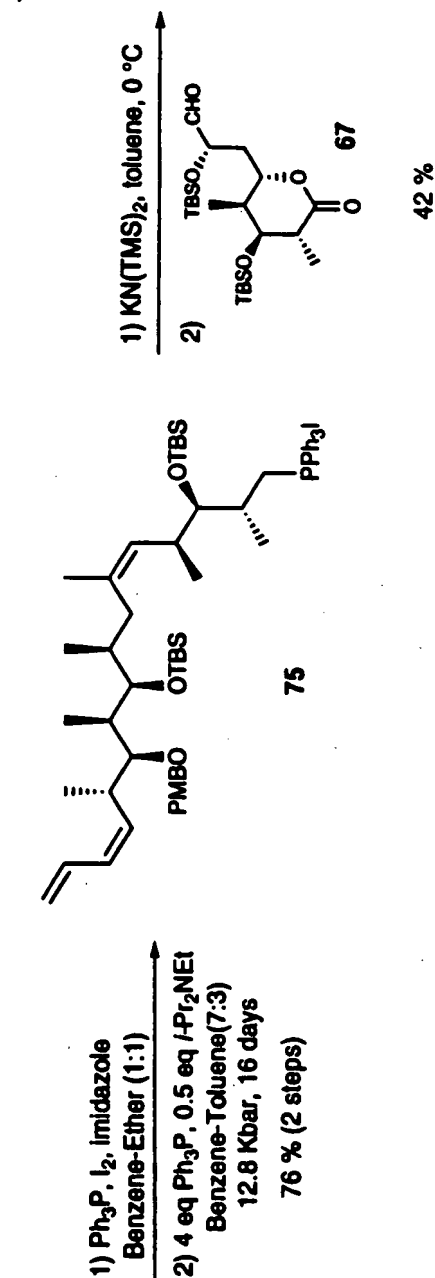
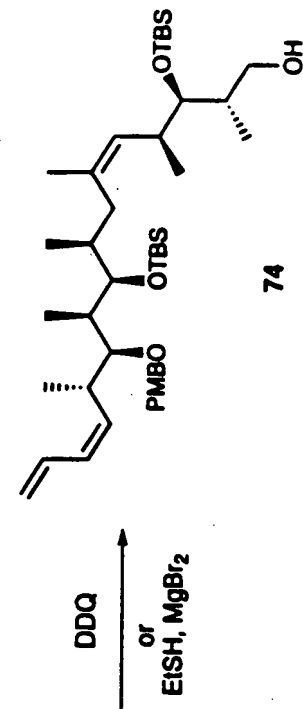
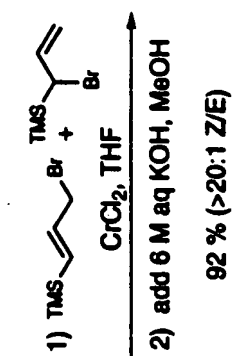
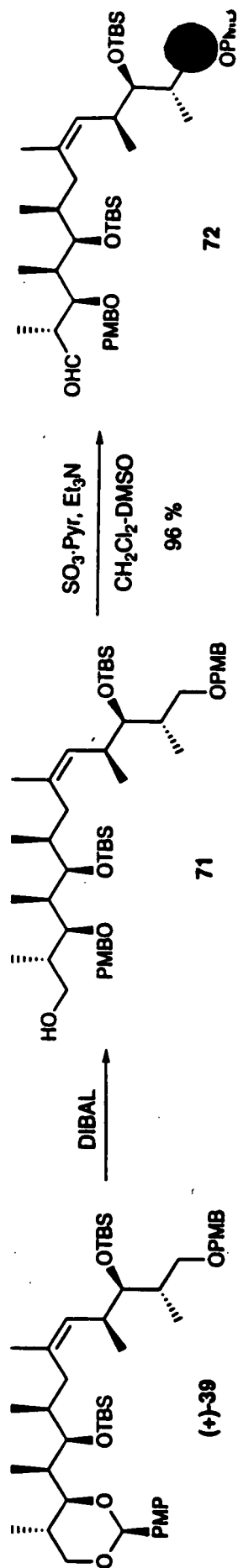


Figure 41

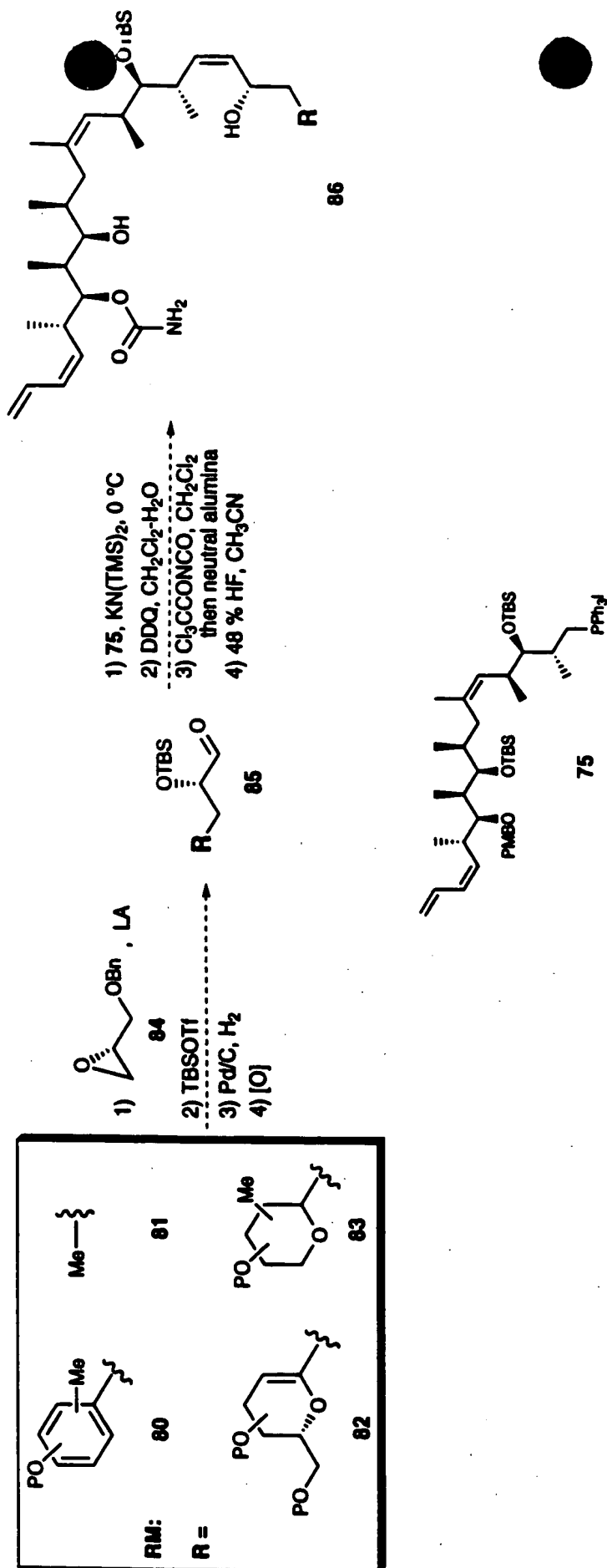


Figure 42

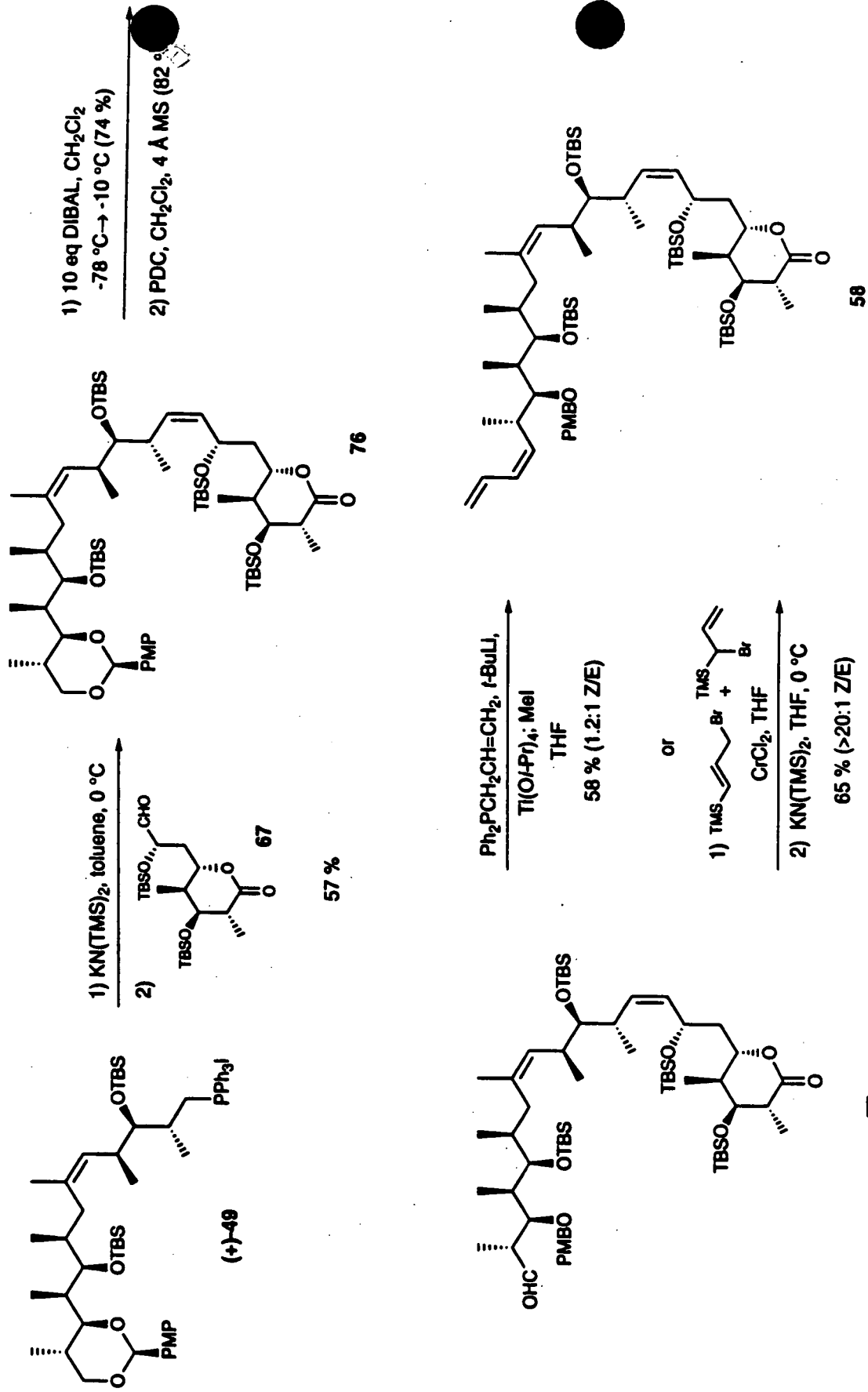


Figure 44

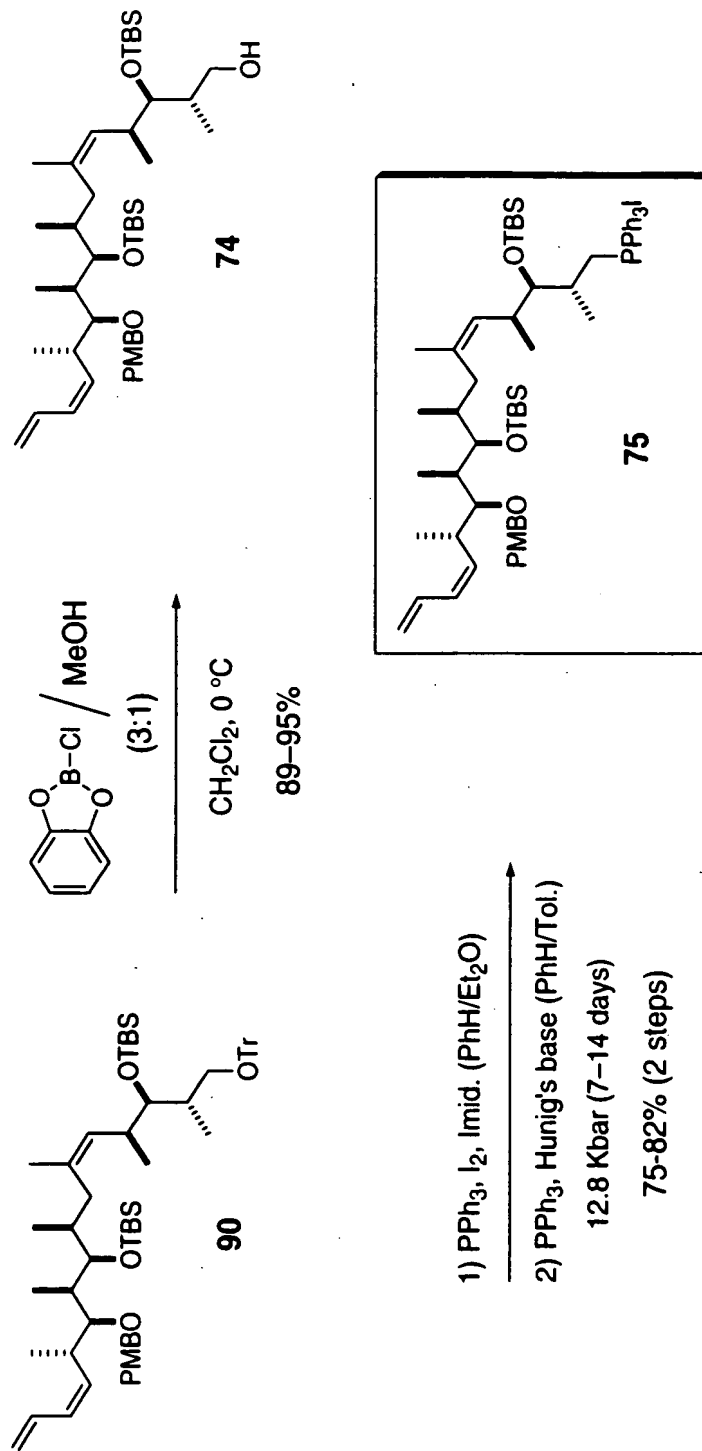


Figure 45

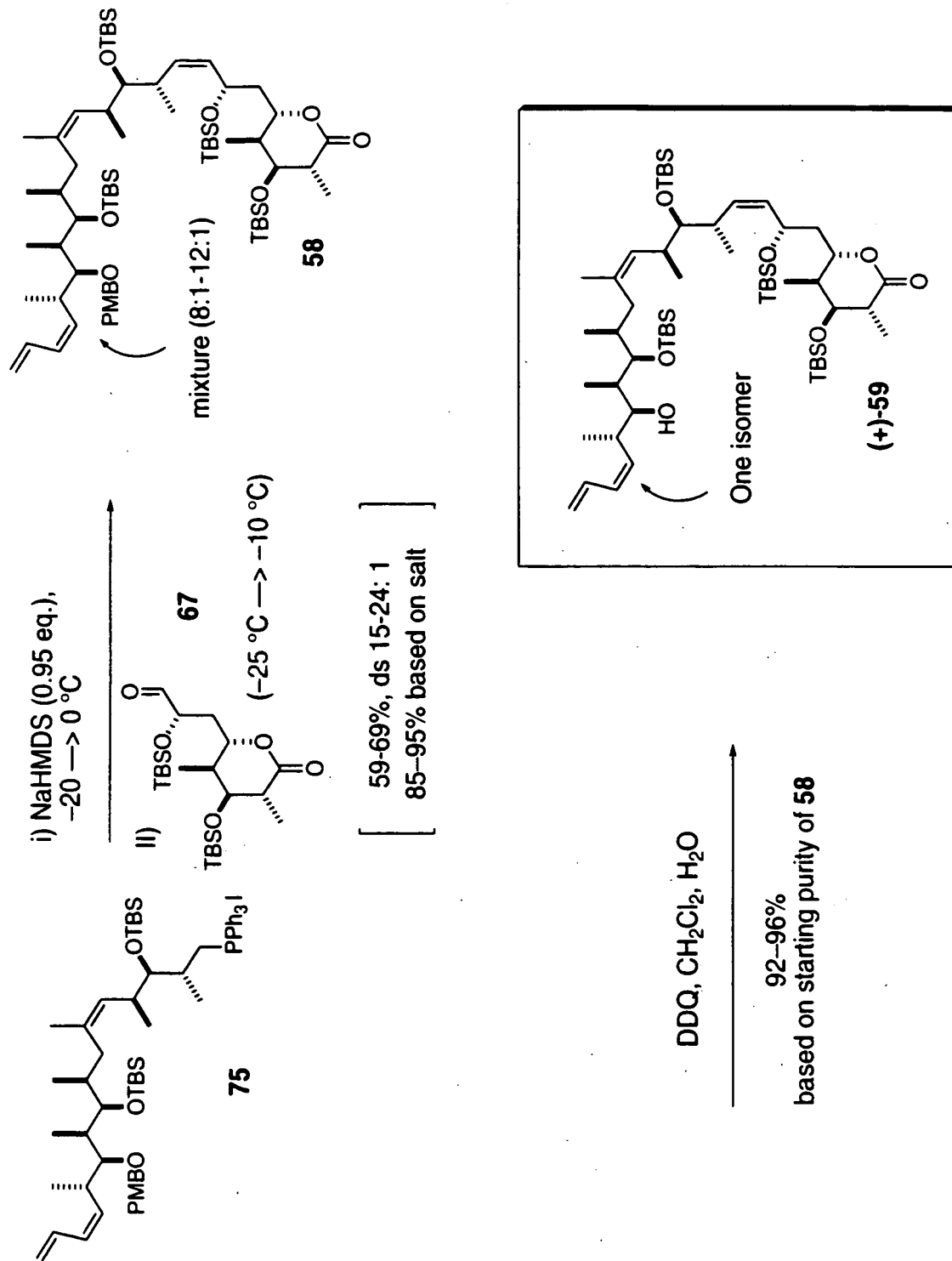


Figure 46

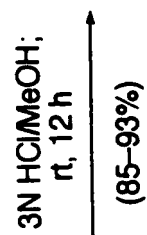
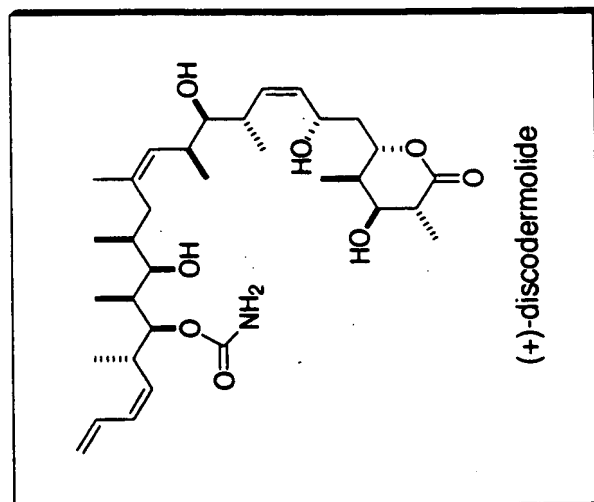
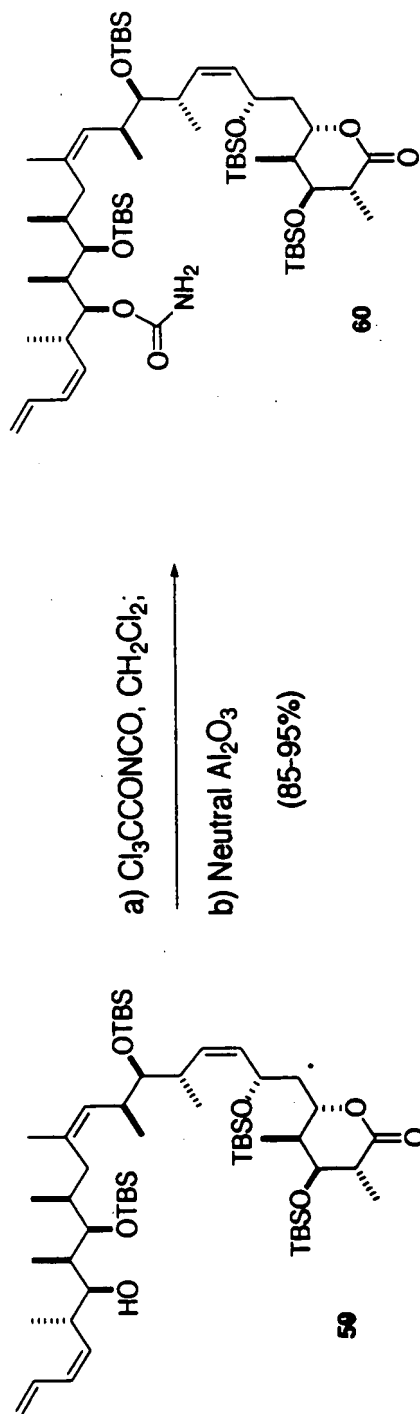


Figure 48

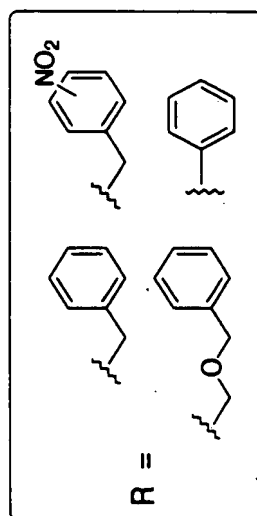
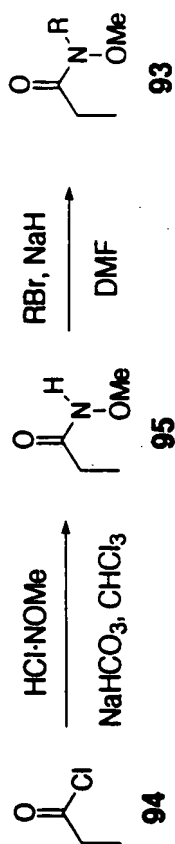


Figure 49

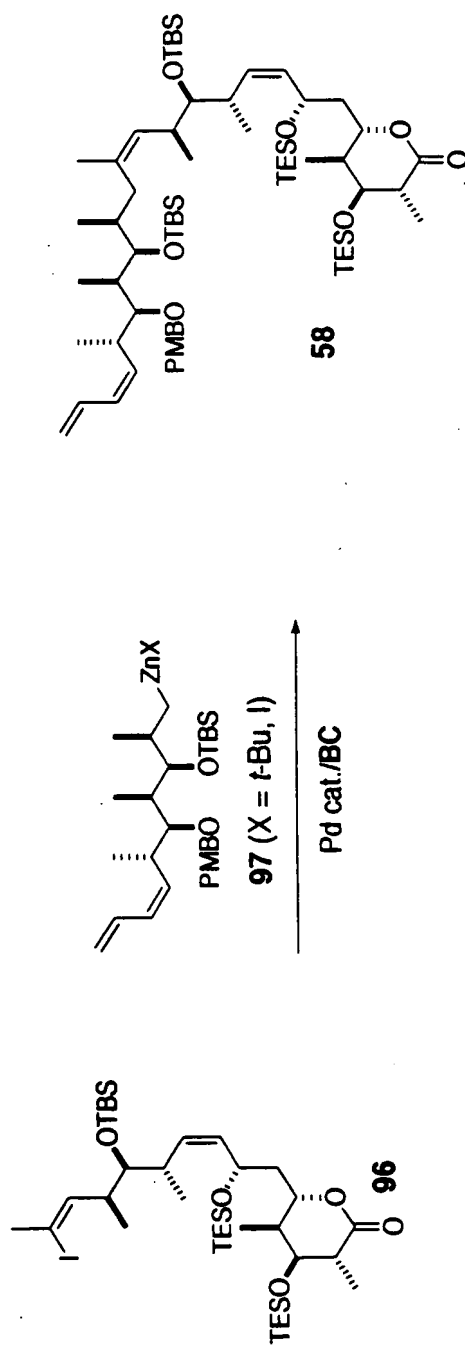


Figure 50

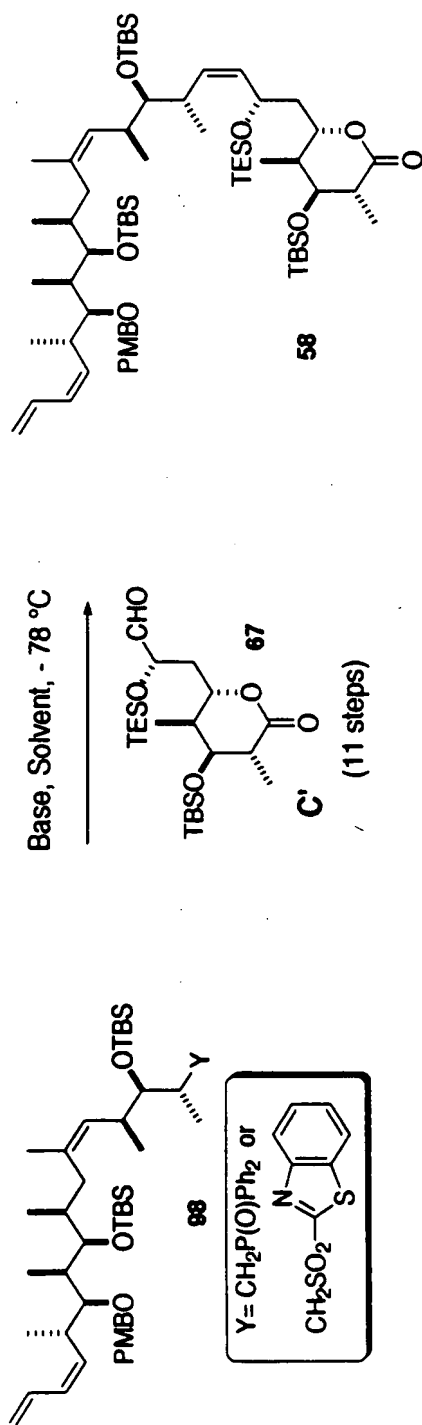
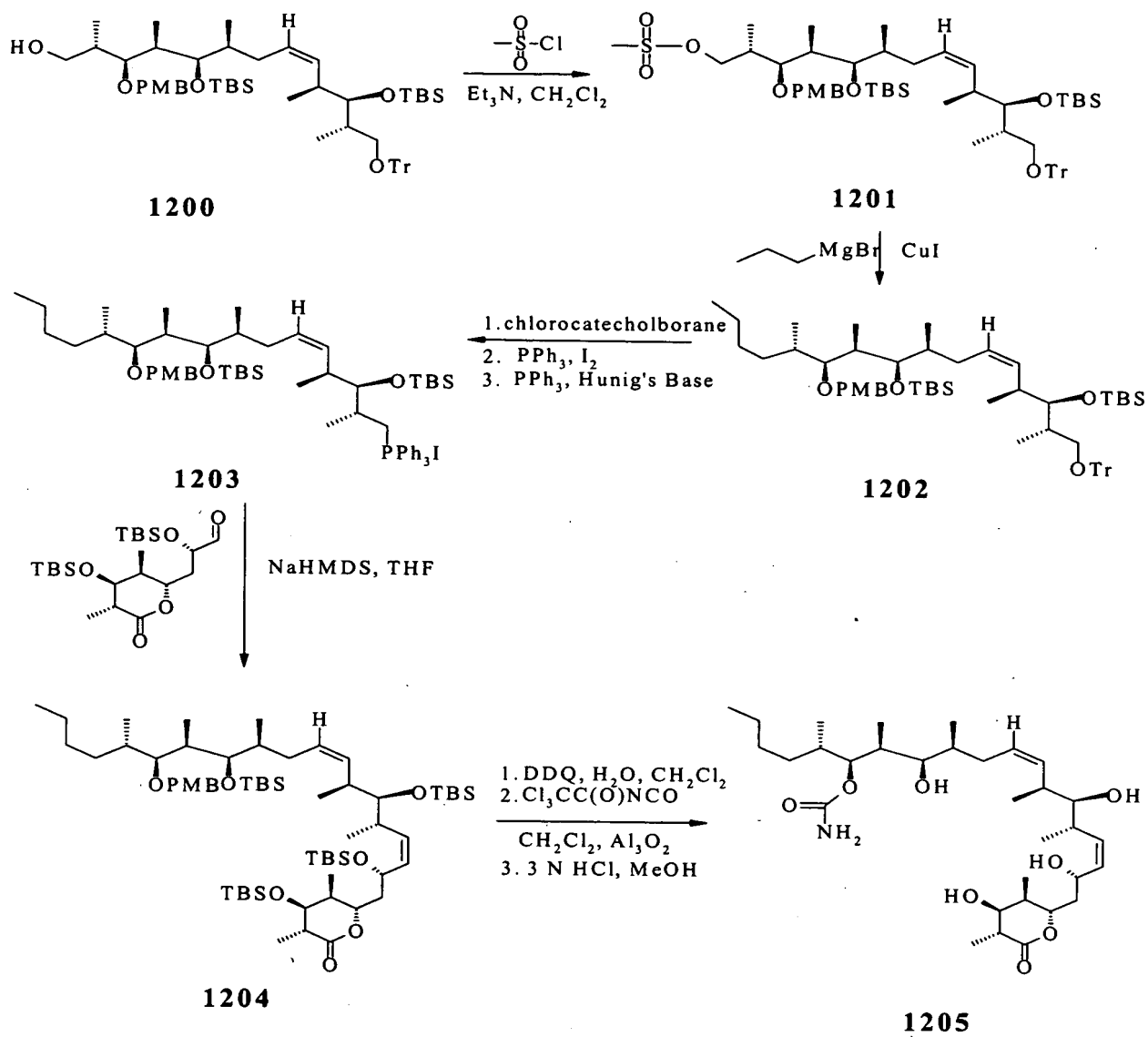
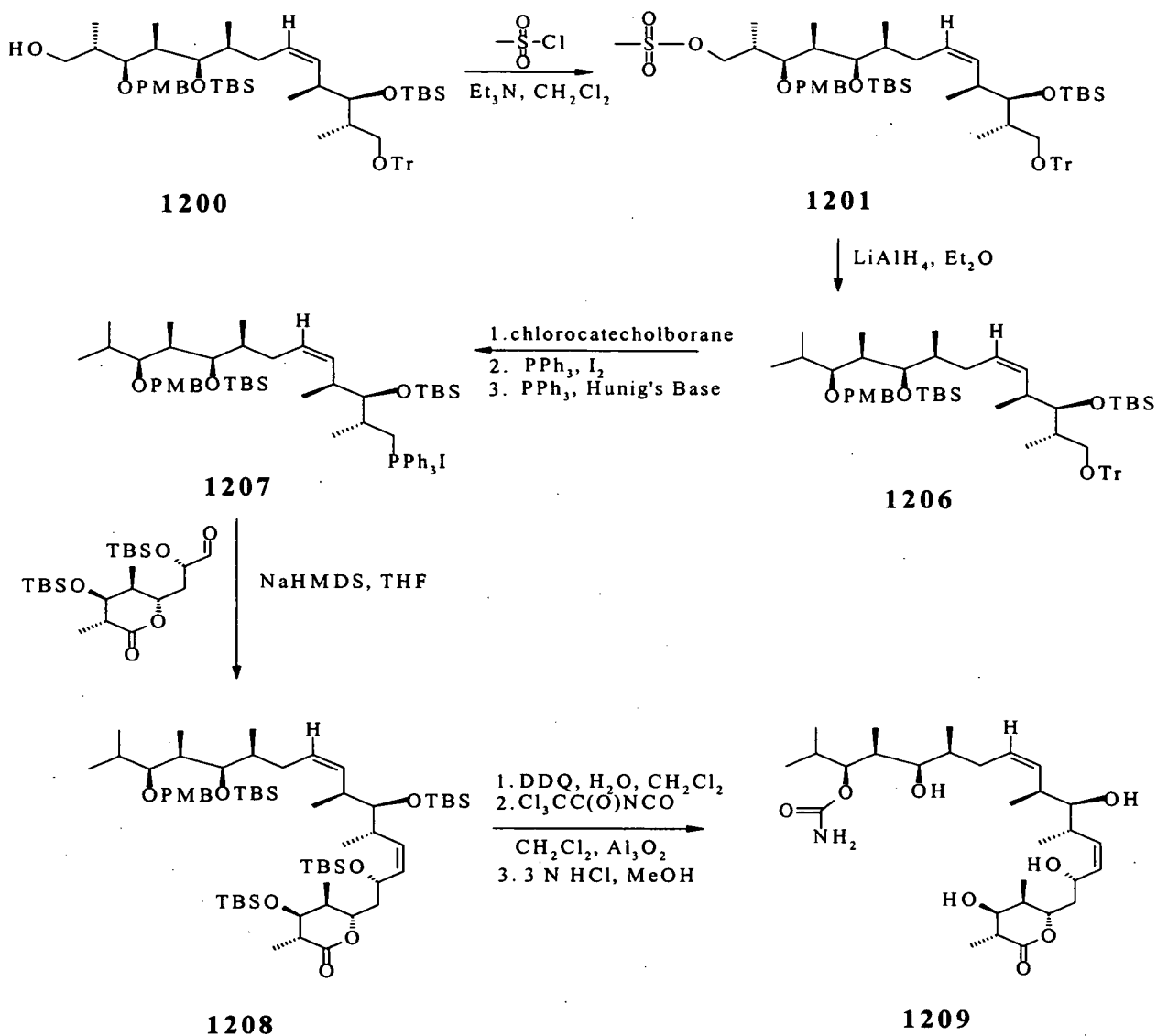


Figure 51



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Figure 52



[illegible]